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FARMER SEED and NURSERY CO.

FARIBAULT, MINNESOTA

1947 CATALOG



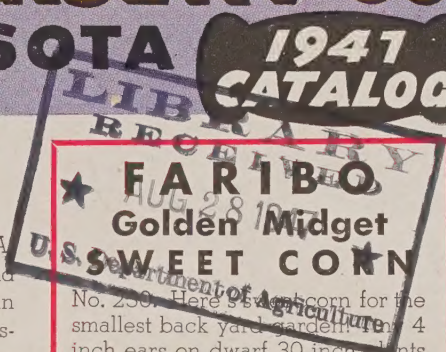
SUNRISE RASPBERRY 2 Weeks Earlier!

The new super-quality berry developed by U. S. D. A. Extra early, — bears 2 weeks before Latham and over a longer picking season. Quality better than Latham, flavor and texture unsurpassed! Large, luscious bright red berries turn dark red when ripe, — easy to pick. Firm, fine textured, juicy, non-crumby, of mild sub-acid flavor with most tempting raspberry aroma. Hardier and more disease free than Latham! The finest of all red raspberries!

2 yr. heavy plants
postpaid:

12 for \$ 2.15
25 for \$ 3.95
50 for \$ 7.25
100 for \$12.95

1 yr. plants at
LOWER PRICES
page 32



No. 230. Here is a corn for the smallest back yard garden. 4 inch ears on dwarf 30 inch plants in less than 60 days. Enthusiastic customers acclaim it the sweetest, tenderest, most flavorful sweet corn ever introduced. Be sure to try it, enjoy sweet corn at its very best!

Big pkt. 35c, 1/2 lb. 50c ppd.



Midget ears
with pencil thin
cob, just fit the
freezer carton!

New

BRONZE BEAUTY LETTUCE The Red Oakleaf

No. 323. Add new color and zest to your salad bowl with this intriguing, tasty new leaf lettuce. Tender, crisp and of unusually appetizing nut-like flavor. Delightfully attractive leaves of unique "oak leaf" shape with a warm ruddy bronze sheen over soft green undertone. Easy and quick to grow—survives hot weather—ready for table in 40 days.

Pkt. 15c, oz. 85c, postpaid.



New Fariba HYBRID "E" TOMATO

No. 618. Developed and produced here in Minnesota! Very early, exceptionally heavy yielding and continues producing fruit in GREAT ABUNDANCE until killing frost. In Southern Minnesota tests, plants set out June 1 ripened fruit July 18 and continued bearing profusely through September. The smooth, medium sized, bright red fruits are free from cracks and blemishes, surprisingly uniform in size, shape and color, and of superb quality and flavor. Vines are vigorous, highly resistant to blight and grow to large size. Ideal for home gardens — highly profitable for early market. Packet (30 seeds) 25c. 3 pkts. 65c.



★ ★ ★
**Small
 Fruits**
 FOR THE
 SMALL YARD
 Delicious
 Fruit 1 Year
 After Planting

Indian Summer RASPBERRIES



2 CROPS IN ONE SEASON

Enjoy this luscious fruit in season, and again long after they're off the market! Loads of large, conical, super quality berries appear late in June (a week before others are ripe) and continue well into July. In mid September comes the real treat—a fall crop, producing until frost! The ideal home garden berry.

Heavy 2 yr. plants: 6 for \$1.40, 12 for \$2.50, 25 for \$4.80 postpaid.
 (1 yr. plants and quantity prices, page 31)



← NANKING CHERRY

U. of Minn. selections from the hardy cherries of Northern China! Supreme beauty of bloom with loads of luscious fruit by mid-July! Bushy plants grow 7 ft. high, bloom profusely, often bear 2nd year! Delicious for eating fresh, for canning, jelly or preserves. True cherry flavor. Insist on our Budded Stock,—seedlings are inferior. Plant 2 or more to insure pollination. 2 to 3 ft. plants by Exp. **Each \$1.35.**

NEW KOREAN CHERRY

Folks who want to grow real quality cherries on smaller plants, will be delighted with new Korean. Bushes grow 3½ feet tall, are covered with gorgeous white bloom, followed by heavy loads of delicious full-sized, bright red cherries. Often bear the 2nd year! Completely hardy. Makes superb pies, sauce and jelly. Plant 2 or more to insure pollination. 2 to 3 ft. plants, by Exp. **\$1.75 Each.**

HANSEN POLLINATOR BUSH CHERRY

Midget sensations of radiant bloom! Fruit makes good preserves. The most effective pollinizer for hybrid cherries such as Purple Heart, Sapa, etc. Boosts the yield of cherry-plum hybrids. (page 33).
 2 Pollinators: 2 to 3 ft. transplants
\$1.00 not ppd.



GET THIS BIG LIVE MAGAZINE

NOW!

12 MONTHS 50¢ or 60 MONTHS \$2

YOU will wonder how these two great up-to-the-minute illustrated magazines, *Farm Journal* and *The Farmer's Wife*, now printed together, can cost so little. It's for all—men, women, boys and girls,—clean and wholesome, no liquor advertisements. You will be delighted with each month's visit.

Farm Journal and Farmer's Wife, Dept. C, Phila., Pa.

☐ ONE YEAR 50¢ (12 Big Issues) ☐ OR FIVE YEARS \$2 (60 Big Issues) ☐
BARGAIN OFFER

Mark the Offer You Want. Send Money Our Risk.

Name

R.F.D. Box or Street

If you live on a R.F.D. put route number above for prompt service.

P. O. State

IMPORTANT: Send coupon direct to Farm Journal and Farmer's Wife, Dept. C, Philadelphia 5, Pa. with remittance (our risk). Price outside U. S. \$1.50 for 2 yrs.



SEE
OTHER
SIDE

TAKE YOUR CHOICE

12

MONTHS

50¢

Send 50c for 1 year (12

Big Issues, average way
over 100 pages).

60

MONTHS

\$2

BIGGEST BARGAIN

Send only \$2 for 5

years (60 Big Issues).

You get an extra year's
subscription.

WORLD'S LARGEST FARM MAGAZINE

FARM JOURNAL AND FARMER'S WIFE is published monthly; big issues; new timely features; fine pictures, beautiful colored covers. Concise, easy to read, 70 years old. Largest mail subscription list in the world,—over 2,650,000 subscribers from Maine to California.

Something for the Whole Family

For folks who live in the Country and love the Country. This fastest printed magazine with month-ahead information gets the important news to you first when valuable and useful.

FARM JOURNAL section: Latest ideas in farm practice, equipment and machinery repairs, "How to Do Things," livestock, dairying, poultry, crops, orchard, garden and everything about the farm. Will keep you up-to-date on changing conditions affecting your farming operations. Latest Washington news so important to farmers.

FARMER'S WIFE section, with its beautiful cover in colors, is a complete magazine for women readers. Homemaking, decorating, renovating, fashions, needlework patterns. Health and beauty, child care. Foods, canning, recipes. Farm Women's letters. Clean, interesting fiction.

DEPARTMENTS FOR GIRLS AND BOYS: Latest 4-H Club and FFA news, answers to young folks' problems, grooming, etiquette, parties, games, movies, sports, aviation, hobbies, money-making ideas, jokes, cartoons.

DON'T FAIL TO READ "LATE AND IMPORTANT LETTER" EVERY ISSUE: PREDICTS FUTURE TRENDS IN BUSINESS OF FARMING

Mail this Coupon today with remittance (at our risk), direct to Farm Journal and Farmer's Wife, Dept. C., Philadelphia 5, Pa.

Recommended by

FARMER SEED & NURSERY CO.

IF YOU ARE NOW A SUBSCRIBER, YOU MAY MAIL OR GIVE THIS VALUABLE COUPON TO A FRIEND WHO IS NOT.



New MASTER HYBRIDS

MINNESOTA GROWN

Better Seed — at Lower Cost

We grow our hybrids here in Minnesota to insure their fitness to this northern climate. In addition to our careful supervision of growing and processing, every field is checked repeatedly by State Inspectors. The finished product is not only tested for germination, moisture, and grading in our own laboratory, but each lot is tested by the STATE SEED LABORATORY, as well! A double check to provide our customers with the finest quality product obtainable. Every bag is State Certified, State Sealed, and carries State Seed Laboratory Germination tests. You can depend on it for good results!

Official State Yield Tests Prove Outstanding Performance:

The data shown below is taken from official state yield trials conducted by State Experiment Stations — not private tests.

SEE PAGES 68 & 69 FOR OTHER MASTER & MINHYBRIDS

RECORD OF MASTER F 101 (114-118 Days)

Test	Yield (bu. per acre)	Rank
Minnesota Southern Zone, 3 Yr. Average ('42 thru '44)	70.9	Yield index plus 5.7
Michigan, Monroe County, 1945	81.0	Highest yielding hybrid in entire trial
Michigan St. Joseph County, 1945	78.5	High yield
South Dakota, 1945 Minnehaha County	50.4	Significantly highest yielding group
Iowa, Northern Section, 2 Yr. Average ('44-'45)	58.77	Performance score 98.52

SEE BLUE FIGURE PRICE LIST

RECORD OF MASTER F 60 (98-102 Days)

Test	Yield (bu. per acre)	Rank
Minnesota, Central Zone, 2 Yr. Average ('42 thru '44)	62.7	High yield
Central Michigan, Zone 3, 2 Yr. Average ('44-'45)	62.1	High yield
North Central Michigan, Zones 4 and 5, 2 Yr. Average ('44-'45)	44.2	Highest yield in group
North Dakota (Southeastern), 5 Yr. Average ('41 thru '45)	45.4	Significantly highest yielding group

SEE BLUE FIGURE PRICE LIST

Every
Bag
Treated,
Certified
and
State
Inspected

BUY DIRECT AND SAVE NO AGENTS

Save A DOLLAR OR MORE on every bushel by ordering direct from producers—you pay no agents a profit. Compare our prices!

See
Blue Figure
PRICE
LIST
at Left

For Canning and Quick Freezing

FARIBO BRITTLE WAX BEANS

(No. 9)—The finest in Wax Beans. Heavy loads of tender, succulent, buttery-flavored, absolutely stringless beans. Ideal for table use, canning or freezing.

Big Pkt. 10c, ½ lb. 30c, lb. 45c prepaid (See page 5)

TENDERGREEN STRINGLESS BEANS

(No. 21)—Round, fleshy, brittle, green beans that make a dinner treat, fresh from the garden, canned, or frozen. Tender, stringless, fiberless, appetizing flavor.

Big Pkt. 10c, ½ lb. 25c, lb. 40c prepaid (See page 4)

LAXTON FREEZER PEA

(Laxton's Progress)

(No. 461)—None better for canning or quick freezing. Retains its color and garden fresh flavor in frozen storage better than others. Extra early maturing and heavy yielding.

Big Pkt. 10c, ½ lb. 20c, lb. 35c prepaid

**SELECTED
Varieties
That Keep
Their Garden
Flavor in
Frozen Storage**

**6 BIG
PACKETS
HOME CANNER'S
FAVORITES**

One of each shown here

**50¢
Ppd.**

KANNER KING HYBRID SWEET CORN

(No. 248)—Large, uniform ears, packed with tender golden kernels of high-sugar content. A main crop, heavy yielding hybrid of super quality for table, canning or freezing.

Big Pkt. 12c, ½ lb. 30c, lb. 50c prepaid (Page 10)

DETROIT DARK RED BEETS

(No. 85)—These smooth, uniform, attractive beets, with crisp flesh of deep oxblood red, are sweet and tender, without a trace of woodiness. (See page 6)

Pkt. 10c, Oz. 20c, ¼ lb. 60c prepaid

RUTGERS TOMATO

(No. 610)—One of the finest tomatoes grown. Smooth, solid, brilliant scarlet fruits, ripen evenly from the inside out. Pleasing, mildly acid taste. Makes sparkling red juice. (See page 24)

Pkt. 10c ½ Oz. 35c, Oz. 60c prepaid

FARMER SEED & NURSERY CO.

E. J. KIEKENAPP, President

N. C. BIETER, Vice-President

CHAS. DAUPHINE, Secretary & Treasurer

*Seed Growers
and Nurserymen*



FARIBAULT - MINNESOTA

DEPENDABLE
SINCE
1888

January, 1947

Dear Friends:

Amid all the confusion in Government, labor and business, farming is still the backbone of the Nation's business.

Agricultural science has given the farmer and garden-er advantages never before dreamed of—in helping him to produce more and better crops per acre, and with greater ease.

Old Mother Earth is still the most dependable provider. To help you benefit most, is the purpose of our 59th Seed and Nursery Annual.

For more than half a century we have developed, tested and selected the outstanding profit makers for farm and garden. We offer the newest releases from Experiment Stations in farm crops and the hardiest dependable fruits and vegetables for your locality.

Thousands of new homes will soon need trees, shrubs and plants. It is most important then to buy for permanence, by selecting nursery stock grown on hardy northern roots, so that you may enjoy the full fruits of your labor.

With food prices still soaring, a good garden is like money from home. We can help you to achieve the greatest satisfaction from the products you grow yourself. That's our business, and we are here to serve you promptly, and at most reasonable cost.

With all best wishes for 1947.

FARMER SEED & NURSERY CO.

E. J. Kickenapp -President

GIFT CERTIFICATES

Give something different—no finer remembrance than a gift that will grow—produce Fruits, Flowers or Garden eatables.

We will gladly send to you or your friends a beautiful gift Certificate—good for anything to be selected from our catalog—in whatever amount you may designate—and in your name. The Certificate will be mailed to arrive on the date you specify. A simple solution to the gift problem—and one sure to be appreciated.

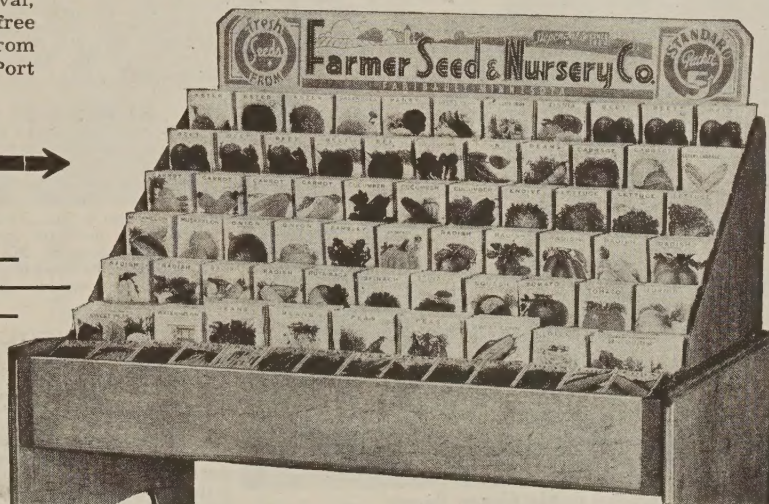
Send your Certificate Orders with remittance to our Gift Department.

FLYING FARMERS WELCOME!

Farmers who fly to Faribault to order their seeds, may on arrival, phone 107 for free transportation from Faribault Air Port to our offices.

*Look for the
"FARIBO" SEED CASE
at your Dealers*

SELECT FRESH VEGETABLES
AND FLOWER SEEDS FROM
THIS HANDY DISPLAY CASE



Quality VEGETABLE SEEDS Northern Grown



Our Trial Gardens at Faribault on U. S. Highway 65 where seed stocks are tested.

Asparagus Seed (FOR ASPARAGUS ROOTS) SEE PAGE 26

1 ounce of seed will sow about 60 feet of drill.

4. NEW PARADISE — Rust-Resistant. Produces a normal crop one year earlier than other varieties and gives heavier production throughout its life. Large crisp, tender stalks of exceptionally fine, mild flavor. Only 6 to 8 stalks required to the pound. The seed should be planted very thinly in seed beds the first season. Pkt. 10c, oz. 25c, ¼ lb. 90c, lb. \$3.50, prepaid.

5. WASHINGTON — Rust-Resistant. Developed by experts of the U. S. Dept. of Agriculture, who originated this strain. The stalks are dark green with purplish tips. Very large, straight and of superb quality. The leading variety grown by market gardeners. Pkt. 8c, oz. 20c, ¼ lb. 70c, lb. \$2.50, prepaid.

Leaflet on Asparagus Culture Free Upon Request

Green Pod Bush Beans

1 lb. plants 50 foot row.

CULTURE—Beans should be sown after May 15th, when the ground is thoroughly warm. Make successive sowings, 2 weeks apart, for a supply of beans all summer. Sow in drills 15 inches apart, 2 inches deep, dropping the beans 3 inches apart in the rows, eyes down and cover. Cultivate often.

NOTE—Do not walk through, or pick beans when they are wet with dew or rain as touching the wet plants spreads the spores of anthracnose or bean canker from one plant to another.

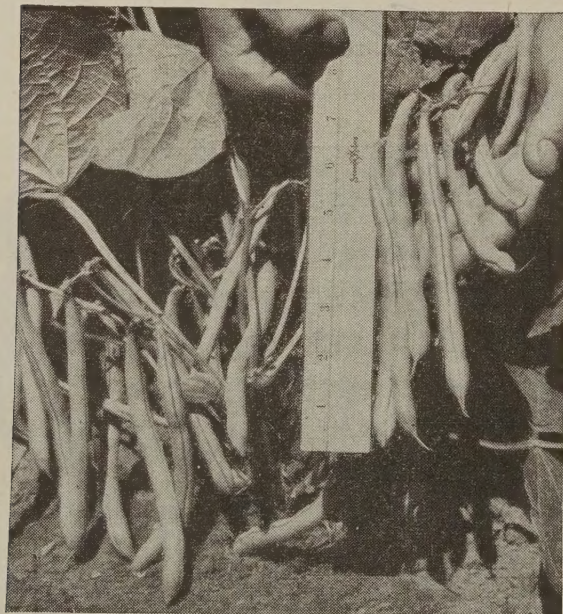
20. FARIBO BRITTLE GREEN — (52 days.) An absolutely stringless, round-podded bush bean, ideal for home use, canning, freezing, shipping, and market gardening. The dark green pods are solid, meaty, brittle and deliciously tender. Plants are of strong upright growth, enormously productive with uniformly straight attractive pods. Mammoth pkt. 10c, ½ lb. 30c, lb. 45c, 2 lbs. 80c, 5 lbs. \$1.80, prepaid.—Not prepaid, 10 lbs. \$3.15. (Color Photo Inside Back Cover.)

21. TENDERGREEN STRINGLESS — (54 days.) So tender and snappy it fairly melts in your mouth! Excellent for home garden or market. Pod: 6 inches long, round fleshy, dark green, stringless and of fine quality. A very heavy yielder. Seed: brown, blotched with light fawn. Mammoth pkt. 10c, ½ lb. 25c, lb. 40c, 2 lbs. 70c, 5 lbs. \$1.65, prepaid.—Not prepaid, 10 lbs. \$2.80. (Color Photo page 2.)

22. NEW KEYSTONIAN — (52 days.) All America Award Winner. This new all purpose stringless green bean produces long, round, straight pods of superb quality. It is adapted to all sections of the country—is very productive, and ideal for canning, freezing, shipping or the home garden. Mammoth pkt. 10c, ½ lb. 30c, lb. 45c, 2 lbs. 80c, 5 lbs. \$1.80, prepaid.—Not prepaid, 10 lbs. \$3.15.

25. BURPEE'S STRINGLESS — (52 days.) Gardeners and canners like this stringless and fiberless bean for its excellent quality. It sells readily on the market, and for cut beans for canning, it can't be beat. Pod: 6 inches long, medium green, round. Seed: coffee brown. Mammoth pkt. 10c, ½ lb. 25c, lb. 40c, 2 lbs. 70c, 5 lbs. \$1.65, prepaid.—Not prepaid, 10 lbs. \$2.80.

27. BOUNTIFUL — (49 days.) A bountiful yielder of delicious, extra early, green, stringless beans. For home garden and for early market. Bountiful is unsurpassed. Pod: 6½ inches long, flat, stringless and of fine quality. Seed: yellow straw color. Mammoth pkt. 10c, ½ lb. 20c, lb. 35c, 2 lbs. 65c, 5 lbs. \$1.55, prepaid.—Not prepaid, 10 lbs. \$2.75.



Faribo Brittle Green Beans



GROW VITAMINS AT YOUR KITCHEN DOOR

SPERGON New Non-poisonous Seed Protectant

Recommended by State and University Exp. Stations For Use on Beans, Peas, Corn and Lima Beans.

Growers report an increase in yield of over 35% from Spergon-treated seeds. Spergon kills harmful soil fungi and bacteria—prevents decay and damping-off, especially in cold, wet weather. Spergon assures better germination of seed and produces healthy, vigorous plants that give better yield. (Can be used with Legume-Aid or Nitragin).

Price: 1-oz. package 25c, 5-oz. package \$1.00, prepaid.

Edible Soy Beans

NUTRITION KING OF VEGETABLES

For Cooking, Baking, Canning, Freezing and Sprouting. Get Free Recipe Folder.

29. BANSEI — No single vegetable variety surpasses Edible Soy Beans in nutritional values. Bansei grows 18-24 inches tall—will thrive in any average garden soil—is resistant to disease and insect pests—and ready to eat in 90 days. Pods are 2½ inches long. Beans bright green to yellow at maturity. Price: Pkt. 8c, ½ lb. 18c, lb. 30c, 2 lbs. 55c, 5 lbs. \$1.30, prepaid.—Not prepaid, 10 lbs. \$2.30.



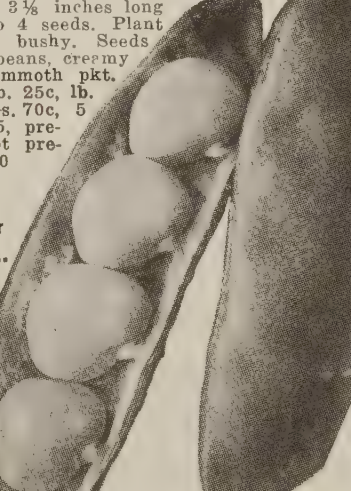
Bansei Edible Soy Beans

BANSEI'S
for Cooking
Freezing
and Sprouting

To prepare green shell soy beans cover pods with boiling water, let stand for five minutes then drain and shell. To one pint of hulled beans add one pint of boiling water and ¼ teaspoon salt. Cover and cook for ten minutes after boiling starts. Drain and season with butter. Dozens of new recipes free on request. Lb. 25c, 2 lbs. 45c, 5 lbs. \$1.10, prepaid.—Not prepaid, 10 lbs. \$1.75.

Produce small, flat, green
beans of excellent quality. Very
and fine for canning.
are 3½ inches long
3 to 4 seeds. Plant
small, bushy. Seeds
dry beans, creamy
Mammoth pkt.
½ lb. 25c, lb.
2 lbs. 70c, 5
\$1.65, pre-
Not pre-
10
2.80

atur
Bean.



Early Baby Potato Lima
Pkt. 10c

Page 5

Tender Young TABLE BEETS

Sow 1 oz. to 80 ft. of row—6 lbs. per acre.

CULTURE—Sow in drills one foot apart and one inch deep, as early as the ground can be worked; continue for a succession as late as the middle of August; when the plants are large enough, thin out to stand four inches apart.

83. EXTRA EARLY WINESAP—(54 days.) The first beet on the family dinner table. Winesap combines excellent quality, flavor and tenderness with its exceptional earliness. Roots are semi-globular, deep rich crimson with small taproot. Flesh is fine grained, sweet and tender. Tops are medium small. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.10, prepaid. Not prepaid, 5 lbs. at \$1.90 per lb.

84. EARLY WONDER—(54 days.) First on the early market. A splendid shipping variety. Similar in quality to Winesap. Roots are blood red with small taproot. Flesh is blood red with lighter zones, tender and of good quality. Tops are medium small. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.10, prepaid. Not prepaid, 5 lbs. at \$1.90 per lb.

85. DETROIT DARK RED—(62 days.) The outstanding late variety for truckers, produce shippers, canners and home gardeners. A most popular, real quality beet. Roots are globular, smooth, uniform, attractive, with small taproot. Flesh is deep ox-blood red, with indistinct zones. Splendid quality, sweet and tender, without any trace of woodiness. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.20, prepaid. Not prepaid, 5 lbs. at \$2.00 per lb. (Color photo page 2.)

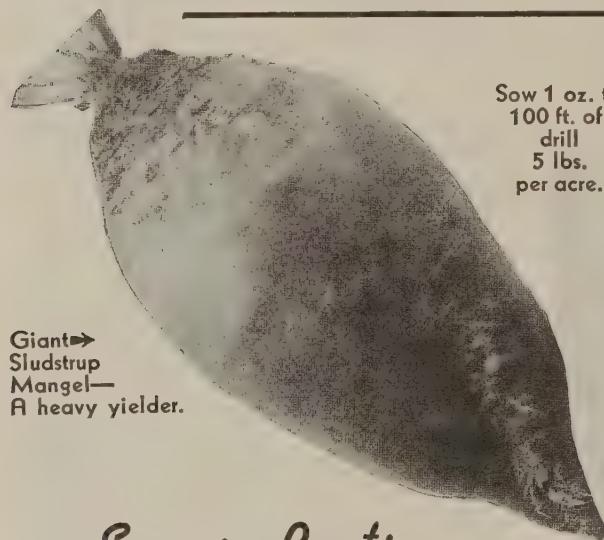
89. EARLY BLOOD TURNIP—(68 days.) One of the best for home use or for market gardeners. Tops medium small, but fairly coarse. Roots turnip-shaped; dark red. Flesh bright red with zones of lighter shade. Pkt. 8c, oz. 15c, ¼ lb. 50c, lb. \$1.90, prepaid. Not prepaid, 5 lbs. at \$1.75 per lb.

90. WINTER KEEPER—(75 days.) Unequalled for late sowing and winter storage. Retains its delicious flavor and remains sweet and tender even when large and old. Beets are almost globe-shaped, tapering somewhat toward the root, the flesh is deep blood-red of excellent flavor and the remarkable manner in which this quality is preserved during winter storage, has given this beet its name. Pkt. 15c, oz. 30c, ¼ lb. 90c, prepaid.



Detroit
Dark Red→
Tender and
delicious
even when
full-grown.

Swiss Chard,
or
Spinach Beet
see page 22



Giant→
Sludstrup
Mangel—
A heavy yielder.

Sow 1 oz. to
100 ft. of
drill
5 lbs.
per acre.

Mangels or Stock Beets

Mangels are the most important of all root crops for feeding livestock. Palatable, easily digested and highly nutritious, both Dairy Farmers and Poultry Raisers find them a valuable winter feed for cattle and poultry. They increase the flow of milk when fed to cattle; they keep hens healthy and stimulate egg production. They should be fed at the rate of 25 lbs. to 100 hens per day, with grain. Mangels are easily stored for winter, in root cellars or outdoor pits.

CULTURE—Sow at corn planting time—in drills 2 to 2½ feet apart, on rich moist land, the seed should be planted an inch deep; on dry and sandy soil it must be planted 1¼ to 1½ inches deep. Thin out to stand 8 inches apart in row.

106. MAMMOTH LONG RED—Yields from 20 to 30 tons per acre. Roots extremely large, tapering, grow half above ground; skin light red. Flesh is white with rose tinge. Oz. 15c, ¼ lb. 45c, lb. \$1.70, prepaid. Not prepaid, 5 lbs. at \$1.50 per lb.

108. GIANT SLUDSTRUP—A very high yielder. Roots are long, oval, orange colored. Flesh is white with yellow tinge. Oz. 15c, ¼ lb. 45c, lb. \$1.70, prepaid. Not prepaid, 5 lbs. at \$1.50 per lb.

109. GIANT HALF SUGAR—Roots are long, oval, white with light bronze-green shoulder. Flesh is white and high in sugar content. Oz. 15c, ¼ lb. 45c, lb. \$1.70, prepaid. Not prepaid, 5 lbs. at \$1.50 per lb.

Sugar Beets

115. KLEIN WANZLEBEN—The most popular variety for sugar manufacture on account of high sugar content; also good for stock feed. Roots are long, with white skin and flesh. Oz. 15c, ¼ lb. 45c, lb. \$1.70, prepaid. Not prepaid, 5 lbs. at \$1.50 per lb.

Ask for free leaflet, "How to Produce Your Own Sugar and Syrup from Sugar Beets."



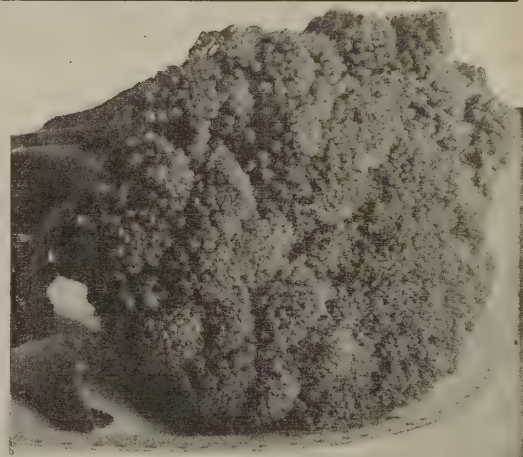
Grow Brussels Sprouts for your Thanksgiving dinner this year. When cooked they are tender and delicious with a mild savory flavor.

Grow These Table Delicacies

70. BRUSSELS SPROUTS—

A delicious vegetable for fall and early winter use. The plant stalks are covered with small cabbage-like sprouts, tender and succulent. The flavor is improved by a touch of frost. Requires the same method of culture as late cabbage. Pkt. 10c, ½ oz. 40c, oz. 70c, prepaid.

Treat your seed for Disease Control before planting. Use ARASAN, a chemical powder that sterilizes both seed and soil, and insures better germination and healthier seedlings. See page 17.

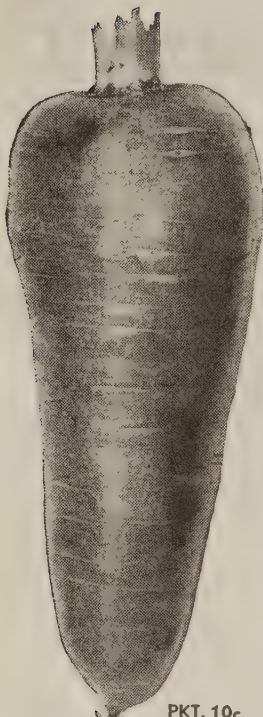


Broccoli—a delicious vegetable superior in flavor to Cauliflower.

80. SUMMER-LONG BROCCOLI—Famed for its tender, delicious flavor and healthful qualities. Cultivated like cabbage, it bears a succession of sprouting heads which, if kept cut, will be replaced by others for 8-10 weeks. Each sprout, about 5 inches long, ends in a small head of deep green buds. Should not be cooked longer than 15-20 minutes or the delicate flavor will be destroyed. Pkt. 10c, ½ oz. 25c, oz. 40c, ¼ lb. \$1.25, prepaid.

Shown in Color on Inside Back Cover.

CARROTS are Rich in Food Value



One ounce will sow 100 feet of row, 3 to 4 lbs. per acre.

CULTURE—Carrots will grow in any soil, but sandy deep loam is best. Sow as early as the ground can be worked, in rows 15 to 18 inches apart, covering about one-half inch. Plants should be thinned to two, three, or even four inches apart in the row.

Stones, clods of soil or lumps of manure cause poor forked roots, and failure to thin young plants leads to twisted inferior roots. Deeply prepared uniform friable soil produces clean, well developed roots.

PKT. 10c

171. Danver's Half Long. A heavy yielder and fine keeper.

170. F. S. & N. CO'S. SUPERIOR MARKET—(76 days.) An attractive bunching and shipping carrot. Roots 8 inches long, with sloping shoulder tapered to semi-blunt end. Flesh, bright deep orange, of excellent quality. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

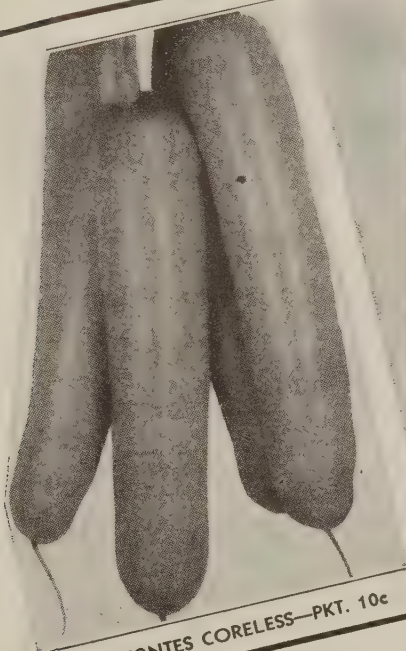
171. DANVERS HALF-LONG — (75 days.) Rich, bright orange in color. Fine-grained and tender. A dependable half-long variety with a blunt point. Easy to harvest; a good keeper and shipper. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

172. NANTES CORELESS—(69 days.) This early carrot is unsurpassed in tenderness and sweetness. The tops are small, the roots bright orange, smooth and coreless, 6-7 inches long. Pkt. 10c, oz. 25c, ¼ lb. 80c, lb. \$2.65, prepaid.

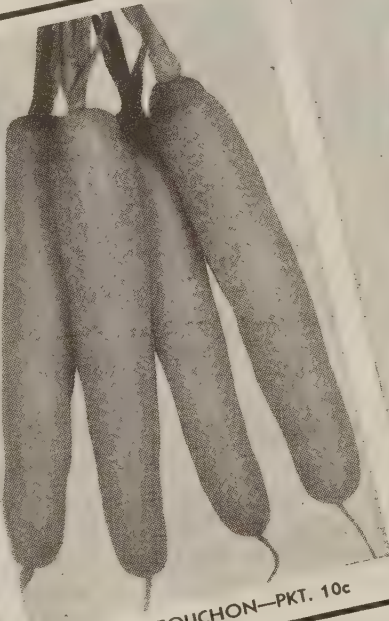
173. IMPERATOR—(77 days.) Roots 7-8 inches long, slightly tapering and just enough top to bunch well. Color is a deep solid orange all through. Of high quality, brittle, tender and sweet. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

174. OXHEART OR GUERANDE—(72 days.) Desirable for home use, prolific and a good keeper. When fully mature used for stock feeding. Excellent table quality when young. Roots: 4 to 5 inches long, 2½-inch shoulder; bright orange, thick, blunt-ended, heart shaped. Pkt. 8c, oz. 20c, ¼ lb. 70c, lb. \$2.40, prepaid.

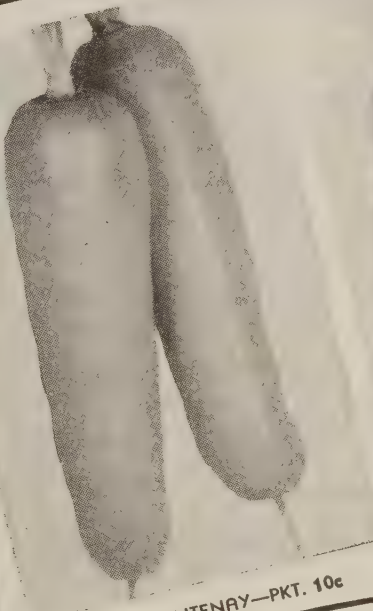
175. CHANTENAY OR MODEL—(71 days.) An excellent all-purpose, medium-early variety, desirable for home and market garden, and for canning diced carrots. Roots: 6 inches long, deep orange, smooth tapered, stump rooted. Flesh: deep orange with indistinct core. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.



172. NANTES CORELESS—PKT. 10c



178. TOUCHON—PKT. 10c



175. CHANTENAY—PKT. 10c



173. IMPERATOR—PKT. 10c

You can enjoy delicious young carrots all summer by planting a short row every two weeks until August 15th.

Carrots
for Stock Feeding
Easily Grown. Heavy Yields.

\$2.65 POUND
Prepaid

Sow seed in drills 3 feet apart, using about 4 pounds per acre. Large yield from small pieces of ground. Tonnage per acre enormous.

185. YELLOW BELGIAN—(95 days.) A heavy cropper, easily harvested. Best results in deep soil. Sow 4 pounds to the acre. Roots: 10 to 14 inches long, 3 to 4 inches thick at top; skin: green above ground, pale yellow below. Pkt. 8c, oz. 20c, ¼ lb. 70c, lb. \$2.65, prepaid. —Not prepaid, lb. \$2.50.

176. STREAMLINER—(78 days.) This modern streamlined carrot has become increasingly popular for the home garden and also for market and roadside stands. Coreless, tapering roots, 10 inches long, with deep orange flesh, fine texture and sweet flavor. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

177. RED CORE CHANTENAY—(72 days.) Valuable for canning and also for market growers. Roots deep reddish-orange, 5½ to 6 inches long, 2¼ inches thick at shoulder, tapered. Core reddish-orange, very inconspicuous. Flesh: fine-grained and tender with a sweet, delicate flavor. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

178. TOUCHON—(70 days.) The exquisite flavor of tender young carrots is retained by this variety even when grown to full size. Similar to Nantes in shape, but a little longer. Tops small. The flesh is bright orange, tender, crisp and sweet; the core small and inconspicuous. Pkt. 10c, oz. 25c, ¼ lb. 80c, lb. \$2.65, prepaid.

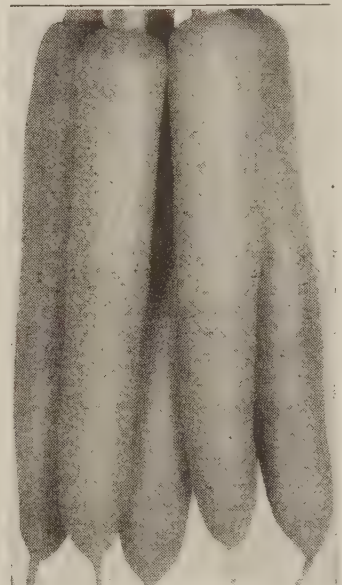
To give a different flavor to Creamed or Scalloped Carrots, try adding 2 or 3 tablespoons of minced parsley leaves to the cream sauce. Parsley is rich in iron. (See page 19).

Quality Carrot Offer

No. 172
Nantes
Coreless
No. 177
Red Core
Chantenay
No. 173
Imperator

Quality Special!

1 pkt. ea. 27c
1 oz. ea. 65c



176. NEW STREAMLINER—PKT. 10c

Your Necessary Supply of Vitamin A Can Easily Be Obtained by Forming the Habit of Eating Raw Carrots and Parsley Daily.

Golden Acre, an attractive variety for early markets.



Fine CABBAGE SEED from Pure Bred Strains

One ounce will produce about 2,500 plants. 1/4 oz. of seed for 50-foot row.

Culture—The best way to start cabbage, especially the early sorts, is in hotbeds, flats, or in a greenhouse. Sow the seed 3/4 inch deep, in carefully prepared rich garden soil. Seed usually germinates in 5 to 10 days. When ready to transplant, set into paper pots or plant bands, in flats, until time to set outdoors. The plants can then be set out without disturbing the roots, and the paper bands form the best protection against cutworms. Set in rows 2 feet apart, 20 inches apart in the rows. Late cabbage may be sown in the open, in rows, and transplanted when 4 to 6 inches high.

HOTKAPS protect young cabbage plants from frost, wind and hail. Growth is forced and yield increased 10 to 25 per cent. Crops mature 2 to 3 weeks earlier and bring premium prices. See page 75.

Late Cabbages

Early Cabbages

121. EARLY JERSEY WAKEFIELD—(62 days.) Extra early small plants with short stems—permitting close setting in the row, and hard, compact pointed heads of splendid quality. A valuable addition to home or market garden. Head: 5 inches thick, weighs 2 to 2 1/2 lbs., small, compact, conical, 7 inches long. Pkt. 10c, oz. 30c, 1/4 lb. \$1.00, lb. \$3.50, prepaid.

126. GLORY OF ENKHUIZEN—(75 to 80 days.) A second early sort particularly valuable for kraut. A good shipper. Head: 8 inches thick, weighs 5 to 8 lbs., large, round, solid, with few outer leaves, of excellent quality. Stem: medium short. Pkt. 10c, oz. 30c, 1/4 lb. \$1.10, lb. \$4.00, prepaid.

133. EARLY DWARF FLAT DUTCH—(71 days.) A fine medium early sort, a dependable header and good keeper. Withstands heat and is popular for its flavor and tenderness. Head nearly round, weight 4-5 lbs. Plant small with short stem. Pkt. 10c, oz. 30c, 1/4 lb. \$1.00, lb. \$3.50, prepaid.

136. EARLY COPENHAGEN MARKET—(68 days.) Dependably early and uniform; used as an early shipper and desirable also for early kraut. Heads round, solid and of superior quality, weight 3 1/2-4 lbs. An excellent short season type. Pkt. 10c, oz. 30c, 1/4 lb. \$1.10, lb. \$4.00, prepaid.

138. EXTRA EARLY GOLDEN ACRE—(63 days.) An extra early Copenhagen type, with small round solid heads maturing with Jersey Wakefield. Weight about 3 lbs. Plant dwarf, with few outer leaves. A high quality cabbage for early market. Pkt. 10c, oz. 30c, 1/4 lb. \$1.10, lb. \$3.50, prepaid.

Yellows Resistant Sorts

134. HOLLANDER, WISCONSIN 8—(100 days.) A splendid late cabbage for storage, shipment and kraut manufacture. A heavy yielder on land infested so badly with yellows disease that other varieties fail completely. Head: 8 inches thick, weighs 8 lbs., large, almost globe shaped, very firm. Pkt. 10c, oz. 35c, 1/4 lb. \$1.25, lb. \$4.50, prepaid.

135. MARION MARKET—(75 days.) Also known as Wisconsin Copenhagen as it is the Yellows Resistant strain of Copenhagen Market which matures early and uniformly. The round solid head averages 7 inches thick, weighs 4 pounds, has short stem. Good for early kraut. Pkt. 10c, oz. 35c, 1/4 lb. \$1.25, lb. \$4.50, prepaid.

137. WISCONSIN "ALL SEASONS"—(90 days.) An excellent kraut and winter keeping sort—valuable in areas infested with "Cabbage Yellows"—also resistant to wilt and will survive heat and drought. Head: 11 inches thick, 8 inches deep, weighs 9 to 10 lbs. Pkt. 10c, oz. 35c, 1/4 lb. \$1.25, lb. \$4.50, prepaid.

140. DANISH BALLHEAD (TRUE HOLLANDER)—(105 days.) The finest late cabbage grown. The head is of an attractive white color, does not burst, and of exceptional flavor, crispness and tenderness. It survives both cold and dry-hot weather. Keeps throughout the winter. For shipping, storage or kraut—it is unsurpassed. Head: 8 inches thick, weighs 6 to 7 lbs., round and extremely solid. Pkt. 10c, oz. 35c, 1/4 lb. \$1.25, lb. \$4.50, prepaid.

142. PENN STATE BALLHEAD—(110 days.) Developed by Penn State College of Agriculture. This late cabbage is the heaviest yielder and the most uniform of all. Especially desirable for winter storage and for kraut. Heads: Large, attractive, flattened globe-shape. Extremely hard. Weighing 15-20 lbs. each. Shows resistance to blackleg. Pkt. 10c, oz. 35c, 1/4 lb. \$1.25, lb. \$4.50, prepaid.

144. PREMIUM LATE FLAT DUTCH—(100 days.) Slow growing, sure heading, of immense size and splendid quality. A favorite for market growing or for winter storing. Head: 10 to 12 inches thick, 7 inches deep, weighs 12 to 14 lbs.; extremely large, flat and solid. Pkt. 10c, oz. 30c, 1/4 lb. \$1.00, lb. \$3.50, prepaid.



↑ Savoy Cabbage

Savoy Cabbage is not often seen in the market, and by growing it yourself, you have something unusual—superior in quality, delicate in flavor.

150. SAVOY PERFECTION—The head is medium in size, with rich, dark green leaves, deeply crumpled. The flavor is sweet and delicious at any season, but it is never at its best until touched by frost. An excellent keeper and the tenderest of all Cabbages. Used raw in salads and cole slaw, or cooked, the flavor is superb. Pkt. 10c, oz. 30c, 1/4 lb. \$1.00, lb. \$3.50, prepaid.

Red Cabbage Distinct in Flavor

Shredded with the White, it makes a Colorful Salad.

152. MAMMOTH RED ROCK—(98 days.) The largest and best of the red cabbages. Of superior quality and an excellent keeper. Head: 7 inches thick, weighs 7 to 8 lbs., round, extremely hard, color purplish red. Pkt. 10c, oz. 35c, 1/4 lb. \$1.25, prepaid.

See Page 27 for "Boost 'em" the new Plant Starter and Fertilizer.

CARCO SPRAY

rids your garden of

ROOT MAGGOTS

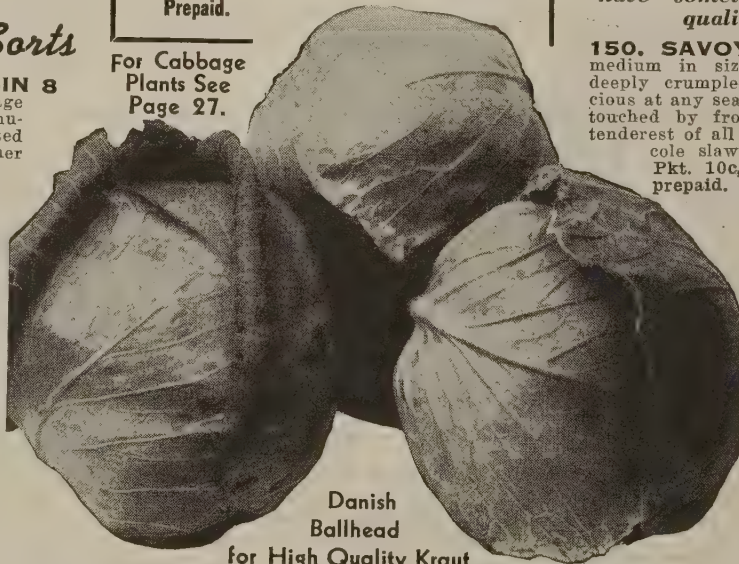
Root Maggots attack your CABBAGE, CAULIFLOWER, CARROTS, ONIONS, BEETS, RADISHES and TURNIPS. Use CARCO SPRAY, early in spring, to prevent deposit of maggot eggs. NOT A POISON. Order early and use it in time! One-half pint makes six gallons of spray. Easy to use—complete directions.

Pint 85c;
Prepaid.

Quart \$1.40

1/2 Pint
60c
Ppd.

For Cabbage
Plants See
Page 27.



Danish
Ballhead
for High Quality Kraut

One ounce
of seed will
produce
3,000 plants.



Super Snowball makes fine large snowy white heads of choicest quality.

CULTURE—The same methods that produce good cabbage will grow good cauliflower. The only great difference is that cauliflower heads must be protected from sunlight so as to make sure of the desirable white curd. Gather the tops of the leaves together loosely as soon as the heads begin to form. In shutting off the light, it is important not to cramp the heads.

Celery—Crisp and Tender

One ounce of seed will produce 3,000 plants.

CULTURE—Sow the seed in flats, during February or March. Celery seed germinates slowly and the surface of the soil must be kept constantly moist. Cover the seed very lightly, with fine sand rather than with soil, to prevent a hard surface. When plants are 2 or 3 inches high, transplant them to other flats. In May, set them out in rows 3 feet apart, 6 inches apart in the rows.

195. SELECT GOLDEN SELF BLANCHING—(118 days.) Best for early table use, and most popular for market. Bleaches as well as any yellow variety. The plants grow to medium size, and are stocky and compact. The heart is rich golden yellow, with light yellowish green outer stalks and leaves. Stalks are broad and heavy, but remarkably crisp and tender, entirely free from stringiness and of fine flavor. Pkt. 10c, ½ oz. 30c, oz. 50c, ¼ lb. \$1.75, prepaid.

196. GREEN PASCAL—A very desirable green type. The stalks are medium broad, rounded, thick and solid. The plant is stocky, full hearted and compact and blanches readily. Quality and flavor are exceptionally good. Pkt. 10c, ½ oz. 30c, oz. 50c, ¼ lb. \$1.75, prepaid.



Golden Self-Blanching Celery

Cauliflower—White and Purple

160. EARLY SNOWBALL—(55 days.) Most widely used early variety. Plants are dwarf with short, pale green leaves. A dependable header. Although extra early, it can be planted for late fall and winter use. There is none to equal it in value for forcing under glass for a winter crop. Head: 6 to 7 inches thick, of medium size, firm, compact, solid, pure white, and of finest quality. Pkt. 15c, ¼ oz. 75c, ½ oz. \$1.35, oz. \$2.00, prepaid.

166. SUPER SNOWBALL—(52 days.) This is an extra early strain of the Snowball type. Besides being extra early, the heads of "flowers" mature with greater uniformity, making it possible to harvest a large percentage of the crop in the first cutting. The plants are vigorous and strong, the leaves are well folded or curled over the heads, which are large, uniform in size, deep and solid. Pkt. 20c, ¼ oz. 85c, ½ oz. \$1.50, oz. \$2.75, prepaid.

New Purple Cauliflower

Quick-Growing, Sure Heading, Requires No Tying.

168. PURPLE CAULIFLOWER—(70 days.) Large, compact heads of a beautiful purple color, surrounded by attractively crinkled dark green leaves. Of superior flavor and excellent quality. In cooking, the purple color changes to an attractive green. The seed may be started early under glass, or sown outdoors in June. Purple Cauliflower is quick-growing and disease-resistant. Pkt. 25c, ¼ oz. 95c, ½ oz. \$1.70, oz. \$2.95, prepaid.



Celtuce

← Celtuce A New Vegetable

Combines the uses and flavors of celery and lettuce.

190. CELTUCE—The plants grow quickly, forming a rosette of light green leaves, which when young, may be used as lettuce or boiling "greens." In less than 90 days the stalk is ready for use. The leaves must be removed and the stalks peeled of their tough outer skin. The heart is pale green, crisp and succulent—delicious served raw like celery, or cooked. The flavor, though suggestive of celery, is different and milder. A first sowing of seed should be made as soon as the ground can be worked in spring, and successive sowings at 10-day intervals to provide a continuous supply throughout the season. Pkt. 15c, ¼ oz. 30c, ½ oz. 55c, oz. \$1.00, prepaid.

For Cress or Pepper Grass—See Page 26.

Celeriac Turnip Rooted Celery

This vegetable should be more generally grown.

The roots are used in salads or boiled like parsnips, or turnips, and have a celery flavor. They keep well all winter. Celeriac may be cooked and served with cream sauce, or used as a salad.

199. LARGE ERFURT—Roots large, smooth, turnip-shaped, excellent flavor. Pkt. 10c, oz. 30c, ¼ lb. \$1.00, prepaid.

Chinese or Celery Cabbage

157. CHIHILI—Early growing and sure heading, resembling Cos Lettuce, producing large, solid white heads, long and pointed at the top. Leaves are broad, compact, tightly folded and beautifully white and very crisp. Sow after July 1st to avoid flowering. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.75, prepaid.

158. WONG BOK—Delicious as a salad vegetable. Heads are thick, oblong, with tightly folded, crisp, white leaves, as tender as those of head lettuce. The flavor is that of very solid cabbage, blended with celery. Do not sow until July to avoid flowering. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.75, prepaid.

159. CHINESE CELERY CABBAGE FOR POULTRY—A cheap, green feed of great value for poultry, more productive than lettuce, spinach or mangels. Sow the seed in rows ½ inch deep and 24 inches apart, using 3 lbs. seed per acre. An ounce of seed will provide green feed for 100 hens for 4 months. Commence feeding Chinese Cabbage when plants are 4 inches high, pulling out every other plant. Plants form heads of 5 to 7 lbs. in 2 months, which can be stored until wanted. Pkt. 8c, oz. 20c, ¼ lb. 70c, lb. \$2.60, prepaid.

A fine vegetable when cooked but especially delicious as a salad.



Wong Bok

Chihili

Generous rings of Chinese Cabbage and meaty slices of rich red Tomatoes make an appetizing salad combination.

HYBRID SWEET CORN *for Greater Yield*

1 lb. plants 200 hills—12 to 15 lbs. per acre.

CULTURE—A rich warm soil will give the best results. Work soil thoroughly before planting. Plant in hills 3 to 3½ feet apart each way, or sow in rows 3½ feet apart, placing the seed about 8 inches apart in the rows. Plant as soon as danger of frost is past; for succession, plant every two weeks until July. Give frequent and thorough but shallow cultivation.

Hybrid Sweet Corn

MINHYBRID 202—Five days earlier than normal Bantam but still surpassing it in both quality and yield. Produces 15,000 marketable ears per acre! Fancy quality, extra tender, with high sugar content. Ears: 6 to 8 inches long, 8-rowed, with a few ears 10-rowed; kernels medium, large, yellow. All ears mature uniformly. Prices below.

244. GOLDEN CROSS BANTAM—(84 days.) An extra heavy yielding Golden Bantam hybrid favored by the leading canning factories. Famous for its large ears, uniformly filled with tender golden kernels of high sugar content. Well adapted to market growing. Stalk 6 ft. high, ears 8 inches long, 10 to 14 rowed. Prices below.

246. IOWANA—All-America Winner. A mid-season 12 to 14-rowed light yellow hybrid sweet corn developed at the Iowa State College. Similar to Bantam Evergreen. Vigorous, resistant to lodging and wilt, and withstands heat and drouth. The uniform cylindrical ears are 8 inches long with deep kernels of finest flavor. Valuable for home garden and canning. Prices below.

247. MARCROSS C6.13—(72 days.) One of the earliest hybrids. Developed by the Connecticut Experiment Station as a first early market and home-garden variety. Stalks are only 5 feet tall, but sturdy; highly resistant to Stewart's disease. Ears: 7 inches long, plump, abruptly tapered at tips; 10 to 14-rowed, with light cream-yellow, medium broad kernels of good quality. Prices below.

248. KANNER KING—(85 days.) A main crop hybrid of superb quality for market, canning or freezing. Large, uniform 8-inch ears, packed with 12-14 rows of rich yellow kernels. Very sweet, tender and of excellent flavor. Prices below.

PRICE OF ALL HYBRID SWEET CORN

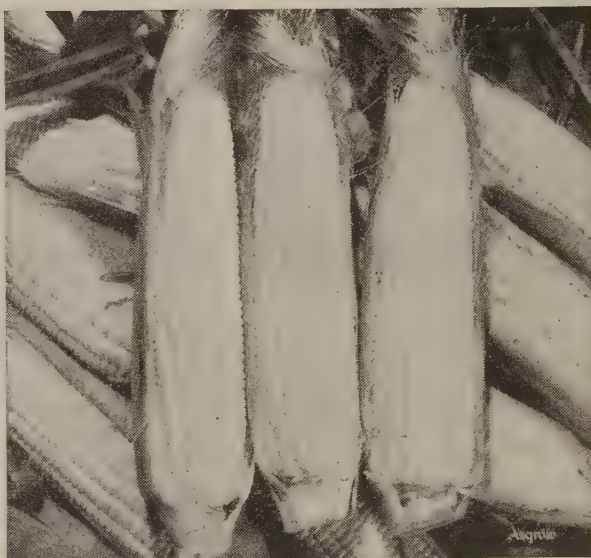
Your choice of any Hybrid variety listed above.

Pkt. 12c, ½ lb. 30c, lb. 50c,

2 lbs. 95c, 5 lbs. \$2.25, prepaid.—

Not prepaid, 10 lbs. and over at 41c per lb.

NOW you can grow the finest, sweetest corn you ever tasted, - in the smallest back yard garden, in 50 to 60 days! Be sure to try the amazing new "Golden Midget," - see description at right. →



Iowa Hybrid is highly resistant to drouth and wilt.

Summer-Long HYBRID BLEND

NO. 222. Hybrid Sweet Corn matures very evenly—making a short picking season. To overcome this we offer a special mixture of the hybrids described at left. Plant a patch to this superb mixture all at one time, it will supply you with sugary sweet corn maturing continuously in 65 to 90 days. Pkt. 12c, ½ lb. 30c, lb. 50c, 2 lbs. 95c, 5 lbs. \$2.25, prepaid.—Not prepaid, 10 lbs. and over at 41c per lb.

Open Pollinated Sweet Corn

Standard Early Varieties

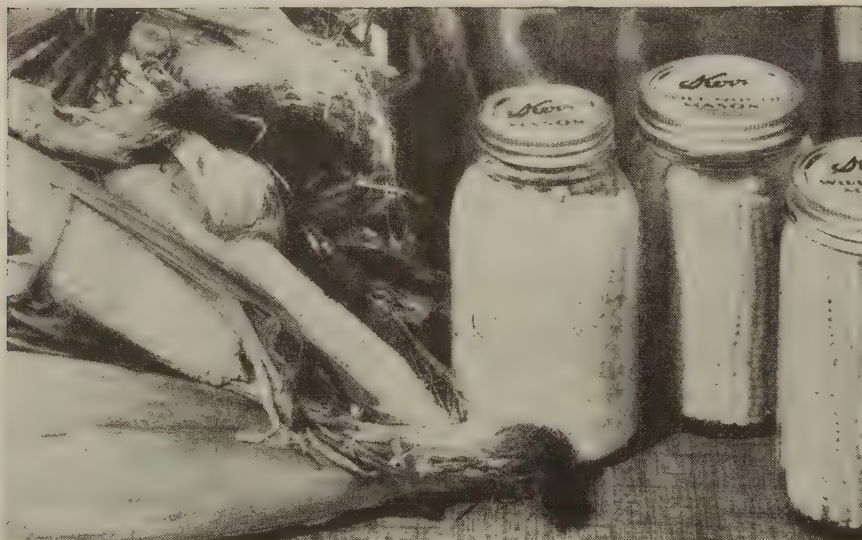
223. EARLY SUNSHINE—(66 days.) Another noteworthy development of the North Dakota Experiment Station. An early yellow variety, with a larger ear, and about 5 days ahead of Golden Bantam. Highly prized by market growers and excellent for home garden. Flavor, tenderness and quality are superb. Ear: 7 inches long; 10-14 rowed, kernels golden yellow, sweet, tender and of good flavor. Stalk, 5½ feet high. Pkt. 10c, ½ lb. 20c, lb. 35c, 2 lbs. 65c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 25c per lb.

226. GOLDEN BANTAM—(79 days.) To most home gardeners, sweet corn means Golden Bantam. Also desirable for trucking and canning. It is medium early, dependable and of wonderful quality. Ear: 6½ inches long, 8-rowed. Kernels broad with tender hull, sweet and of exceptionally fine flavor. Stalk: 5 to 5½ feet high. Pkt. 10c, ½ lb. 18c, lb. 30c, 2 lbs. 55c, 5 lbs. \$1.30, prepaid.—Not prepaid, 10 lbs. at 22c per lb.

227. GOLDEN EARLY MARKET—(67 days.) Also known as Golden Hummer. One of the finest extra early yellow varieties for market. Ears have strong husks, 8 to 12-rowed and 6½ inches long. Kernels are golden yellow, tender, sweet and of good flavor. Stalk: 5 feet. Very heavy yielding for such an early sort. Fine for home gardens also. Pkt. 10c, ½ lb. 20c, lb. 35c, 2 lbs. 65c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 25c per lb.

Faribo *Golden Midget*

*Tiny 4-inch Ears
on Dwarf 30-inch Plants
in less than 60 Days!*



230. FARIBO GOLDEN MIDGET—(56 days.) A really fine, super-quality, butter-yellow, Sweet Corn. The Midget ears have the luscious sweetness of old-time True Golden Bantam, with a flavor that is unsurpassed. Midget Corn grows about 3 feet high, and can be planted 6 to 8 inches apart, each plant producing 3 to 5 ears of delicious Sweet Corn. Very early maturing, it can be planted in succession all through the season. Served garden-fresh to your guests, the 4-inch ears are a startling novelty, and the length is just right too, for packing in the quart-size freezer carton. For the average small home garden, Golden Midget, with its dwarf plants and tiny ears is the ideal Sweet Corn. Pkt. 35c, ½ lb. 50c, prepaid.



The golden yellow kernels of Early Sunshine are sweet and tender.

Golden Cross Bantam—tender and sweet—an excellent canning variety.

For Color Photo see page 80.

Late SWEET CORN Varieties



Stowell's
Evergreen

Sweet Corn All Summer

Planted at one time, varieties
in this collection will supply
your table all summer.

Collection
No. 200

(Standard
Sorts)

F. S. & N. Co.

October, 1946

Your Golden Midget Sweet Corn was the finest and sweetest I have ever eaten. Please advise what the price of one pound of this corn would be, and if it is available now. You may enter my order for one pound as I do not want to miss out in spring in case your supply is limited.

Erwin Oreck, Duluth 2, Minn.

Golden Early Market—Extra
Early.

Golden Bantam—Medium
Early.

Bantam Evergreen—Late, White.

1 pkt. of each (3 pkts.) . . . 26c

1/2 lb. of each (1 1/2 lbs.) . . . 50c

1 lb. of each (3 lbs.) . . . 90c

233. BANTAM EVERGREEN—(85 days.) Developed from a cross of Golden Bantam and Stowell's Evergreen. It has the rich golden yellow kernels of Bantam, and the size and tender hull of Evergreen. Sweet, and of fine quality. Evergreen type of ear with 14-18 rows. Ready for market when most other yellows are overmature. Pkt. 10c, 1/2 lb. 20c, lb. 35c, 2 lbs. 65c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. and over at 22c per lb.

242. STOWELL'S EVERGREEN—(90 days.) Most popular late variety for home and market gardening or canning. Holds its prime condition at eating stage a long time. Ear: 9 inches long, 16 to 20-rowed; kernels clear white, deep medium width, sweet and tender. Stalk: 8 to 10 feet high, sturdy and erect. Pkt. 10c, 1/2 lb. 20c, lb. 35c, 2 lbs. 65c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 22c per lb.

243. COUNTRY GENTLEMAN—(93 days.) A late, prolific variety of excellent quality, used widely by canners; also desirable for home and market gardens. Ear: 7 1/4 inches long; kernels very deep, slender, sweet, with tender hull, and set irregularly without row formation. Stalks: 7 1/2 feet high. Pkt. 10c, 1/2 lb. 20c, lb. 35c, 2 lbs. 65c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 22c per lb.



Treat All Your Seed Corn with ARASAN

New Seed Disinfectant and Protectant

Arasan will help you get better stands of vigorous, healthy normal seedlings and greatly increase your yield per acre.

Price: 1-oz. pkt. (treats one Bu.) 16c,
8-oz. can, 85c. prepaid.

Boosted corn
yields 8 1/2 bu.
per acre.

Save Your Sweet Corn Crop

Use

GARDEN DURA DUST

To Control Ear Worm

Corn Ear Worm Eggs are laid in the silk when forming. Three or four light dustings with **Dura Dust** at 3-day intervals at silk-forming time will free the ears from worms.

Price: 1 lb. 50c

4 lbs. \$1.20

Prepaid

Now YOU CAN HAVE

Delicious
Canned
Corn



This New Patented Corn Cutter eliminates corn canning drudgery—removes just the tender young corn, leaving the tough husks on the cob. Fastest known method—five strokes finishes an ear in less than 10 seconds. Send for your Corn Cutter today.

Only **\$1.00** prepaid.

Pop Corn is a Profitable Crop

CULTURE—Plant Minhybrid 250 Pop Corn 3-5 lbs. to the acre in drills; South American Pop Corn 5-8 lbs. to the acre. Plant in rows 3 to 3 1/2 feet apart, dropping the seed 8 to 10 inches apart in the row. We have discarded all but the outstanding varieties.

250. MINHYBRID 250 WHITE HULLESS CERTIFIED—The last word in Pop Corn. Developed by the Minnesota Experiment Station, it far surpasses the old Jap Hulless—records show a 16% greater yield per acre, and a 29% greater popping expansion. Minhybrid White Hulless is the finest Pop Corn obtainable from the standpoint of quality, flavor and tenderness. Pkt. 10c, 1/4 lb. 20c, 1/2 lb. 35c, lb. 60c, 2 lbs. \$1.10, 5 lbs. \$2.50, prepaid.

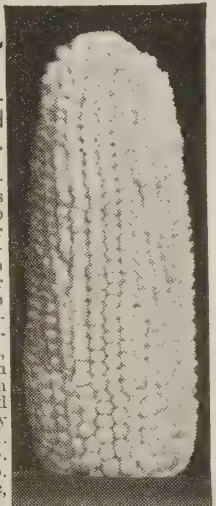
251. FARIBO - HULLESS WHITE—This dwarf corn is used extensively by pop corn vendors. The ears are only 3 to 4 inches long, but every kernel on the cob will pop, so there is no waste. Faribo Hulless Pop Corn is almost again as productive as White Rice. The kernels are longer and more slender, and have no hulls. Pkt. 8c, 1/4 lb. 15c, 1/2 lb. 25c, lb. 45c, 2 lbs. 85c, 5 lbs. \$2.00, prepaid.

252. "FARIGOLD" SOUTH AMERICAN YELLOW—Pops the largest kernels of any variety, crisp and tender, fine-flavored, of a rich golden-butter color. Produces more bushels to the acre, as the ears are large, averaging 7 to 9 inches in length. Though of South American origin, we have matured our own seed crop here in Minnesota, so that the seed we offer will mature earlier. Northern Strain: Pkt. 8c, 1/4 lb. 15c, 1/2 lb. 25c, lb. 45c, 2 lbs. 85c, 5 lbs. \$2.00, prepaid.

253. NEW "HYBRID GOLD"—Developed from South American Yellow, this new hybrid ripens in 105-110 days. Pops to large, flaky, tender kernels of a rich butter color, and is unusually high in popping volume. Hybrid Gold is a profitable variety to grow for the market as it produces greater yields than open pollinated corn. Adapted to southern Minnesota, northern Iowa, Wisconsin and South Dakota. Seed supply very limited. Pkt. 10c, 1/4 lb. 20c, 1/2 lb. 35c, lb. 65c, 2 lbs. \$1.20, 5 lbs. \$2.75, prepaid.



Hybrid Hulless pops to flaky, tender kernels
of delicious flavor



Minhybrid 250
White Hulless
Pop Corn

Eat More Pop Corn

Hybrid Hulless is a Super-quality Pop Corn, high in popping volume, tender and fine-flavored.

HYBRID HULLESS

(This corn is for popping only; it is not suitable for seed.)

Lb. 30c, 4 lbs. \$1.00
Ppd. to 4th zone

Not Prepaid:

10 lbs. @ 18c per lb
100 lbs. @ 16c per lb

Enjoy Sweet Corn late in the season as well as early. Bantam Evergreen is an excellent choice.

CUCUMBERS *for Pickling and Salads*

One ounce will plant 50 hills; three pounds for an acre.

CULTURE—Cucumbers require warm rich soil. When all danger of frost is past, plant in low flat hills, 4 to 6 feet apart each way. Scatter 10 to 12 seeds in a one foot circle in each hill and cover one-half inch. If the soil is naturally poor, work a forkful of decayed manure into each hill before planting. When plants are about 5 inches tall, thin out, leaving the five strongest to each hill. Keep the soil cultivated as long as it can be done without injuring the spreading vines. Kill Squash Bugs and Cucumber Beetles with Pyrocid Dust, see Prices Below.

NOTE: Days from planting to picking are listed here. The letters W. S. and B. S. indicate the white spined and black spined varieties.

Best for Pickling

254. MINCU BABY CUCUMBER—Matures in about 50 days. The short oval fruits, averaging 4 inches long by 1½ inches in diameter, are ideal for pickles. They are white spined with crisp white flesh and medium green skin. The vines are compact and not inclined to run extensively. A very early heavy cropper. Mincus was developed at the Minnesota Experiment Station. Pkt. 10c, oz. 25c, ¼ lb. 85c, lb. \$3.00, prepaid.

For Color Photo of Mincus see page 80.

255. F. S. & N. CO'S EARLIEST PICKLING—(53 days.) The finest strain of pickling cucumber. It is early, exceptionally vigorous and hardy, and highly productive. Its quality is unsurpassed. Fruit: 6 inches long, 2½ inches thick, straight, smooth, symmetrical, of dark green color; quality and flavor excellent. Pkt. 10c, oz. 20c, ¼ lb. 65c, lb. \$2.10, prepaid.

257. CHICAGO PICKLING—(59 days.) B. S. (Westerfield Pickling.) Most widely used of the pickling varieties. Also good for slicing. Fruit: 6½ inches long, 2½ inches thick, medium green, square ended, attractive and prolific. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.00, prepaid.

All-Season Cucumber Collection

One Pkt. Each { Earliest Pickling
Taxpayer
Straight Eight
Longfellow

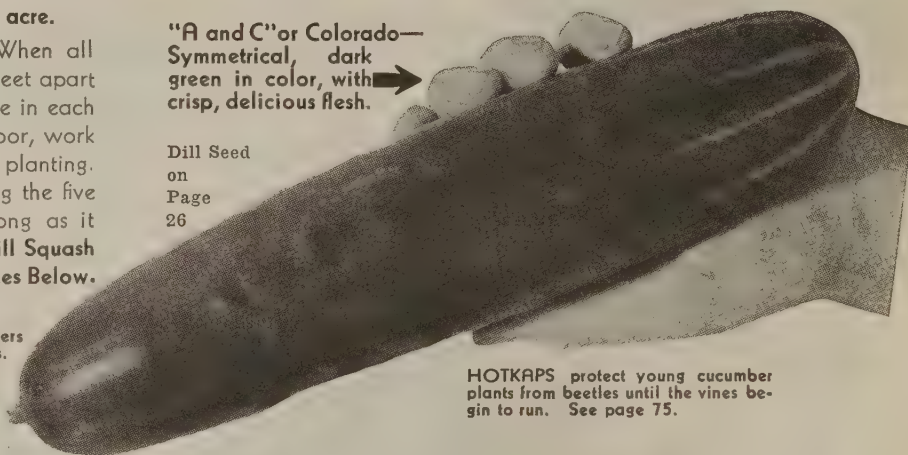
34¢
ppd.



Cucumbers, both large and small, to fill your jars with Crisp Dill, Appetizing Chunk and Sweet Pickles.

"A and C" or Colorado—
Symmetrical, dark
green in color, with
crisp, delicious flesh.

Dill Seed
on
Page
26



HOTKAPS protect young cucumber plants from beetles until the vines begin to run. See page 75.

These for Slicing and Salads

256. STRAIGHT EIGHT—All-America Gold Medal Winner. (66 days.) The most desirable slicing cucumber you can plant. The straight symmetrical fruits grow about 8 inches long and about 1½ inches in diameter. A very convenient size and shape. The color is a rich, deep green. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.75, prepaid.



Straight Eight—a beautiful streamlined variety.

259. "A & C" or COLORADO—W. S. (68 days.) A long, slender cucumber of excellent shape and intense dark green color. The fruits are 8 to 9 inches long and average 2 inches in diameter; they hold their color longer than any other type. Seeds form late in the season and are few. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

260. IMPROVED LONG GREEN—(67 days.) (Black spined.) This is a standard late variety for home garden; excellent for slicing; hardy and prolific. Dependable. Pkt. 10c, oz. 20c, ¼ lb. 70c, lb. \$2.40, prepaid.

270. DAVIS PERFECT—(65 days.) W. S. An excellent mid-season variety for shipping or home table use. Splendid quality and appearance. Fruit: 9 to 10 inches long, 2½ inches thick, dark green, tapered at both ends; flesh crisp and of good quality. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.00, prepaid.

272. THE LONGFELLOW—(70 days.) W. S. (Vaughan.) Ideal for home garden, forcing or shipping. One of the best long, late varieties. Excellent quality. Perfectly uniform, long, slender shape. Fruit: 12 to 15 inches long, 2½ inches thick; dark green, symmetrical and attractive. Holds color and crispness well after picking. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50, prepaid.

278. TAXPAYER—(64 days.) W. S. This striking cucumber is uniformly 9 inches in length, with tapering ends and of an intense dark green color. Produces cucumbers over a long period of time, and many of them. Developed from Early Fortune which was the best seller of all White Spines because of its extreme earliness, and abundant yields. Pkt. 10c, oz. 20c, ¼ lb. 70c, lb. \$2.50, prepaid.

For Cress, Egg Plant, Endive, Herbs,
Kale and Kohlrabi, see page 26.

USE PYROCID DUST—Kill Squash Bugs & Cucumber Beetles

Now you can protect melons, squash and cukes with non-poison Pyrocid, a new type dust, so powerful it controls these hard-to-kill pests, and most all types of sucking and chewing insects on fruits and vegetables including Aphids, Cabbage Worms, Mexican Bean Beetles, Leaf Hoppers, as well as house pests: flies, ants, etc.

Price { 1 lb. 45c
Prepaid: { 5 lbs. \$1.65

Not { 10 lbs. \$3.10
Prepaid: { 25 lbs. \$7.50

F. S. & N. Co. May 27, 1946
Inclosed find check for which send me 5 lbs. Boost 'Em. I put some of the solution around my lettuce plants and the heads are larger than any pictures I have ever seen in a seed catalog. The results on my tomato plants are unbelievable. They are 4 times larger than my neighbor's plants, and were set out on the same day.
Mrs. Mary Stalcup, Falls Church, Va.

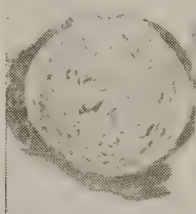
Crisp LETTUCE

Healthful and Refreshing

One ounce will sow 150 feet of row; 4 lbs. plant an acre.

CULTURE OF HEAD LETTUCE

For early crops start seed in hotbed, covering $\frac{1}{4}$ inch. When 2 inches tall, transplant seedlings to 4 inches apart. When ground is warm, transplant to garden, 1 foot apart. For general crop, sow outdoors in April and May and thin out to 10 inches apart.



Head Lettuce

333. COSBERG—(76 days.) An early sure-heading lettuce, that withstands heat and is somewhat resistant to blight. Small, compact heads, firm; light green leaves attractively curled. Cosberg heads under adverse conditions when standard varieties fail. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.90, prepaid.

335. CRISP-AS-ICE—B. S. (74 days.) A popular sort for the home garden. Forms compact medium-sized head, well blanched and of delicate flavor. Leaves thick and crumpled; deep green overlaid with dark brown, giving a bronze appearance. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.90, prepaid.

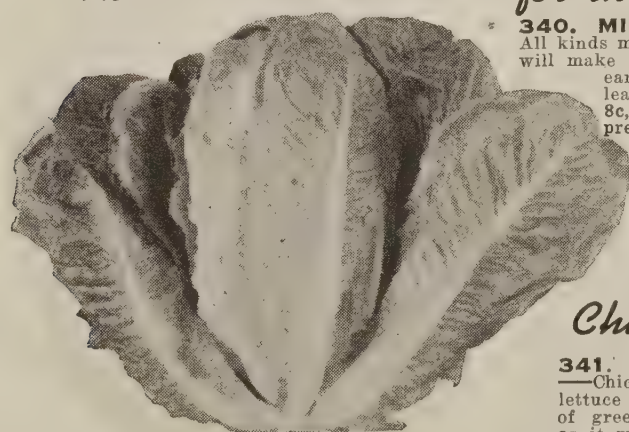
338. WONDERFUL, NEW YORK OR LOS ANGELES—W. S. (80 days.) The outstanding shipping variety that combines flavor and tenderness with unusual keeping qualities. Our special strain is noted for the large size of heads. The edges of the dark green leaves are slightly curled and the large, tightly folded cabbage-like head is well blanched, crisp and sweet. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.25, prepaid.

339. IMPERIAL NO. 44—W. S. (83 days.) Heads very large, solid, crisp and sweet; leaves light green and crumpled, with edges curled and waved. Imperial does well under varying weather conditions, and is somewhat resistant to brown blight and mildew. An excellent shipper. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.25, prepaid.

Romaine or Cos Lettuce

For the Salad Bowl

330. WHITE PARIS—W. S. (70 days.) Considered the finest of all lettuces in flavor. Famous chefs prefer it for salad because of its tenderness and delicious flavor. Self-folding, with dark green leaves forming oval-shaped heads with greenish-white interior. The entire plant is tender and palatable. Cos Lettuce is easy to grow, slow to bolt to seed during hot weather and does not require much space in the garden as it is upright-growing. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.90, prepaid.



Cos Lettuce is Crisp and Self-folding.
Grow it for midsummer and early fall use.



Great Lakes

"Great Lakes" Heat-Resistant Head Lettuce

Especially Bred for the Middle West

331. GREAT LAKES—(75 days.) This new lettuce is distinguished for its ability to produce tight heads in hot weather, for its resistance to tipburn and for its reluctance to run to seed. Of the Iceberg type, with large thick leaves folding well over the head. Especially bred as a summer lettuce for the Middle West. Pkt. 15c, oz. 50c, $\frac{1}{4}$ lb. \$1.75, prepaid.



Oak Leaf retains its delicate flavor
even in hot weather—never turns bitter.

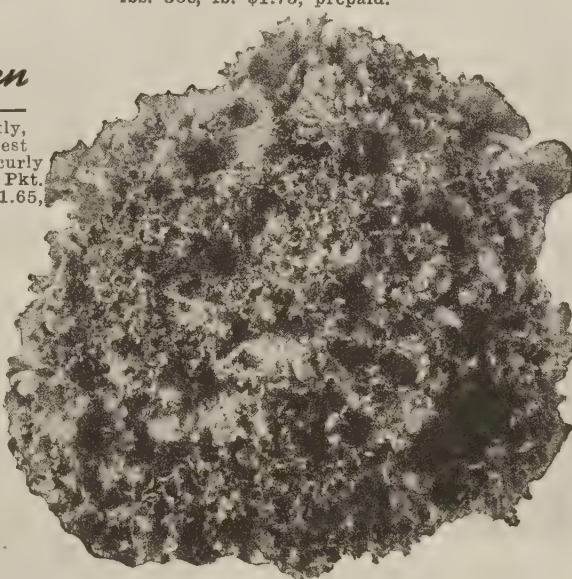
Mixed Lettuce for the Small Garden

340. MIXED LETTUCE SEED—All kinds mixed. If not sown too thickly, will make a continuous crop. The best early and late varieties of curly leaf as well as head lettuce. Pkt. 8c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.65, prepaid.

325 Grand Rapids→
Daintily Curled, Tender
and Delicious.

Chicken Lettuce

341. CHICKEN LETTUCE—Chickens need green food. This lettuce will yield a large amount of greens throughout the season, as it makes successive crops after cutting. Pkt. 8c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.60, prepaid.



Note:—B. S. and W. S. refer to black or white seeded varieties.

CULTURE OF LEAF LETTUCE

Sow outdoors as soon as the ground opens, covering seed $\frac{1}{4}$ inch. When plants are 3 or 4 inches tall, thin out to stand 6 inches apart. In harvesting, cut lettuce above the crown and it will grow new leaves. For fall use, sow in August.

Leaf Lettuce

323. BRONZE BEAUTY—(40 days.) This colorful new leaf lettuce has the long scalloped leaves of Oak Leaf, but the color is a warm, ruddy bronze, completely suffusing the soft green undertone. Resistant to hot weather, tender, crisp and delicious. Pkt. 15c, oz. 85c, $\frac{1}{4}$ lb. \$2.75, prepaid. (Color Photo Front Cover.)

324. OAK LEAF—(40 days.) The rich green of its leaves, its tenderness and resistance to hot weather, have made Oak Leaf the most popular lettuce for home gardens. If plants are thinned to stand 6 inches apart, they form loose heads, and the base of each leaf turns crisp and cream colored, with a tenderness unequalled by any other. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 85c, lb. \$3.20, prepaid.

325. GRAND RAPIDS—B.S. (43 days.) One of the most popular loose-leaved varieties. Excellent for early planting and greenhouse forcing. It is very early, hardy, and disease resistant and is exceptionally tender when grown under glass. Handsome leaves are light green, broad, wavy, curly and heavily fringed. Pkt. 10c, oz. 18c, $\frac{1}{4}$ lb. 55c, lb. \$1.75, prepaid.

326. BLACK SEEDED SIMPSON—(46 days.) Large rich green leaves, thin, tender and crisp, forming a loose head. One of the most vigorous varieties in hot weather and slow to run to seed. Especially adapted to the home garden. Pkt. 10c, oz. 18c, $\frac{1}{4}$ lb. 55c, lb. \$1.75, prepaid.

327. SIMPSON'S EARLY CURLED—(45 days.) A white seeded leaf lettuce of excellent quality. Large, light green leaves, crumpled and frilled, forming a compact central bunch. Pkt. 10c, oz. 18c, $\frac{1}{4}$ lb. 55c, lb. \$1.75, prepaid.

329. PRIZEHEAD—W.S. (46 days.) An early, quick-growing, non-heading sort. Leaves are broad, crumpled and frilled; outside leaves tinged red, inner leaves wholly green; very crisp, sweet and tender. Pkt. 10c, oz. 18c, $\frac{1}{4}$ lbs. 55c, lb. \$1.75, prepaid.

As a salad lettuce, Romaine or Cos has no superior—the leaves are dark green, sweet and succulent.

MUSKMELONS, *Thick-Meated and Delicious*

One ounce will plant 60 hills.
Two to three pounds per acre.

CULTURE—Muskmelons require warm, rich soil, slightly sandy. Plant when all danger of frost is past, in hills 6 feet apart each way, 8 to 10 seeds to a hill. After danger of insects is past, thin out to 3 or 4 plants to a hill.

New Midget Melon

356. MINNESOTA MIDGET "356"—60 days. Here's a real find for the garden with limited space. The vines grow only 3 feet long and produce surprising numbers of luscious little 4-inch melons, just right for individual serving. High in sugar content, they have a small seed cavity and deep orange flesh—edible to the rind. Pkt. 25c.

See Color Photo on Page 80.



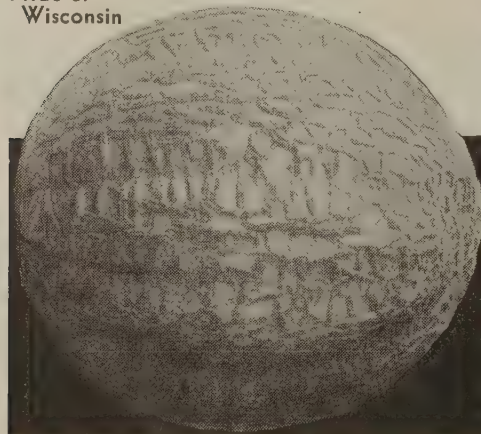
These Have Hard Rinds

Excellent Shipping & Market Varieties
Fine also for Home Garden Use

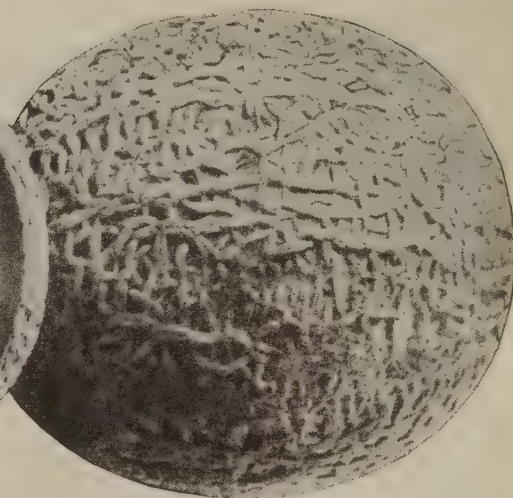
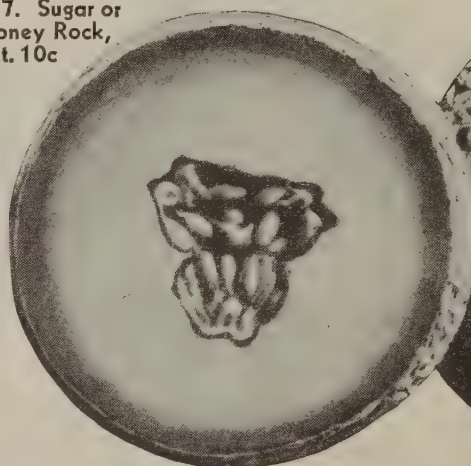
359. PRIDE OF WISCONSIN—90 days. Developed from a cross of Honey Rock and Hearts of Gold. Grows well in heavy soil. Fruits are oval in shape, and weigh about 3½ lbs. The rind is very hard, of a pearly gray color, faintly ribbed and heavily covered with a distinctive netting. The orange flesh is solid, thick and very sweet, with a compact seed cavity. Pkt. 10c, oz. 25c, ¼ lb. 70c, lb. \$2.50, prepaid.

358. HALE'S BEST—80 days. Popular early shipping cantaloupe. Flavor and quality excellent, and withstands drought. Can be shipped long distances. Fruit: oval, 6½ inches long, almost devoid of ribbing, covered with heavy netting. Flesh: extremely thick, orange color, sweet and of fine flavor. Pkt. 10c, oz. 25c, ¼ lb. 65c, lb. \$2.40, prepaid.

Pride of
Wisconsin



357. Sugar or Honey Rock,
Pkt. 10c



← *Early Sunrise*

Outstanding New Melon
For Local Market and Home Garden

354. EARLY SUNRISE—83 days. Similar to Bender's Surprise in type, but much earlier and of superior quality and flavor. The thick-oval fruits average 5½ to 6½ pounds in weight, and are covered with a coarse netting, and distinctly ribbed. The rind is hard, and creamy green at maturity. Flesh bright salmon, thick and of delicious quality. An excellent melon for local market and home garden use. Pkt. 10c, oz. 25c, ¼ lb. 70c, lb. \$2.60, prepaid.



Osage or
Miller's
Cream

Three Luscious Melons

With Richly Colored Thick Flesh
Juicy and Wonderfully Sweet

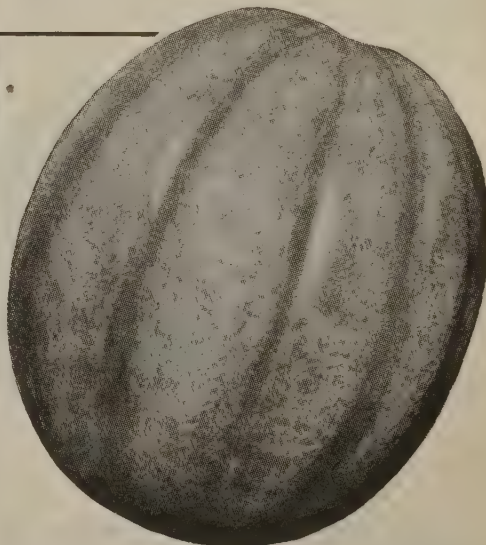
357. SUGAR OR HONEY ROCK—85 days. A money-maker and a source of pride for every grower. Handsome in appearance, distinctive in flavor. Sweet as sugar, solid as a rock and easy to grow. Fruit: nearly round, about 6 inches in diameter. Weight: 4 lbs. Skin grey-green, covered with coarse netting. Flesh: thick, juicy, orange color, with fine flavor. Pkt. 10c, oz. 25c, ¼ lb. 70c, lb. \$2.50, prepaid.

360. OSAGE OR MILLER'S CREAM—92 days. A popular favorite for home or market and a good yielder. Fruits are oval with slight ribs and netting and dark green skin when immature, ripening to mottled orange and green. Melons are 7 inches long, weigh 5 lbs. Small seed cavity with thick, firm, pink flesh of spicy flavor. A good shipper. Pkt. 10c, oz. 20c, ¼ lb. 65c, lb. \$2.35, prepaid.

364. HEARTS OF GOLD—90 days. For the home garden with heavy soil, this is an excellent melon, unsurpassed in flavor and quality. Just right in size too—about 6 inches in diameter and nearly round. Distinctly ribbed, deep green, and covered with fine gray netting. Flesh thick, deep salmon; tender, juicy, sweet and aromatic. Small seed cavity. Pkt. 10c, oz. 20c, ¼ lb. 65c, lb. \$2.35, prepaid.

Melons a Month Earlier !

For an early crop, the small gardener may start melon seed indoors in plant bands. These may later be set out in the garden without disturbing the young plants, and covered with hotkaps for protection from cold, as well as from beetles and squash bugs. See page 75.



Golden Gopher MUSK MELON



Developed at the
University Farm
St. Paul, Minnesota

Resistant to Wilt

355. GOLDEN GOPHER—85 days. Especially bred for resistance to fusarium wilt, this melon is of the Pride of Wisconsin type, with the same thick, fine-flavored orange flesh. Oval in shape, with light but coarse netting, fruits weigh about 3½ lbs. and are 5¼ inches in diameter. Uniform and early. Pkt. 10c, oz. 25c, ¼ lb. 70c, lb. \$2.50, prepaid.

Muskmelons should be left to ripen on the vine, until they come off easily when given a slight pull or twist.

Newest Early WATERMELONS

Improved Wilt-Resistant Strains

Four ounces will plant 100 hills; sow 3 to 4 pounds per acre.

Culture—The best soil for growing watermelons is light, rich, and sandy. When the ground is thoroughly warm, and all danger of frost is past, drop 8 to 10 seeds in hills 8 to 10 feet apart, covering the seed about an inch. When the plants begin to run to vines, thin out all but the three strongest plants in each hill.

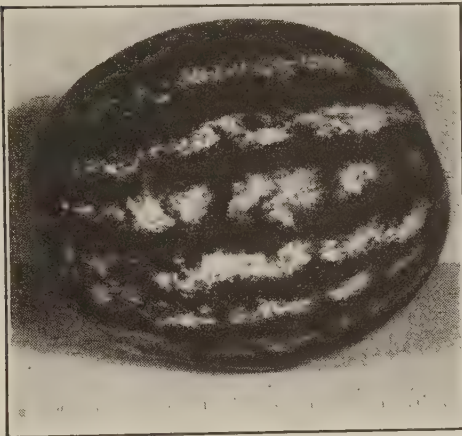


Dixie Queen

Early Kansas

Also known as Red Russian or Red Seeded Hutchinson

369. EARLY KANSAS—(80 days.) Very popular on the markets of the Midwest, due to its earliness combined with large size, and its attractive appearance—plus fine quality. The skin is dark green with alternate stripes of a lighter shade. The rind is of medium thickness—well suited for carrying reasonable distances—and the flesh is a rich red color, of delightful flavor. Average size 15 by 13 inches; weight 40 lbs. Seeds brown. Pkt. 10c, oz. 20c, ¼ lb. 45c, ½ lb. 80c, lb. \$1.65, prepaid.



369. Early Kansas has rich red flesh, a thin rind and very solid center.

370. COLE'S EARLY—(75 to 80 days.) A leading first early variety for home garden and truckers to local markets; reasonably productive, and particularly desirable for the Northwest as it matures in a short season. Fruit: weight 20 lbs., medium size, short, oval, with alternate light and dark green stripes; tender rind. Flesh: pink-red, of good flavor; seeds black. Pkt. 8c, oz. 15c, ¼ lb. 40c, ½ lb. 70c, lb. \$1.25, prepaid.

Home Garden Melon Collection

One Pkt. Each:

- Muskmelon, Hale's Best (Early)
- Muskmelon, Sugar Rock (Med.)
- Watermelon, Early Northern Sweet
- Watermelon, Klondyke Sugar (Late)

for 28¢

← Dixie Queen

375. DIXIE QUEEN—(85 days.) An early melon of excellent quality. It is semi-round, with a thin tough rind and stands shipping. The color is light green alternately striped with dark green. Weight about 32 pounds. The flesh is bright red, crisp and sweet, and the few seeds are small and white. Pkt. 10c, oz. 20c, ¼ lb. 55c, ½ lb. 90c, lb. \$1.65, prepaid.

Early Northern Sweet →

374. EARLY NORTHERN SWEET—(75 days.) This amazing melon ripens in 9 to 10 weeks from planting. Of an attractive green color, striped with lighter green. Flesh is dark red and tender, with a rich sugary flavor. Weighs 12 pounds. Splendid for early market or home garden. It is important that melons be picked as soon as they ripen, otherwise flesh tends to become slightly stringy. Pkt. 10c, oz. 20c, ¼ lb. 45c, ½ lb. 80c, lb. \$1.50, prepaid.

New Ice-Box Melon.



Crisp, Sweet Melons From Your Own Garden 30 Days Before Others Are Ripe

373. ICE BOX—Extreme earliness is the outstanding feature of this melon, as it matures fully 30 days before other varieties are ready for use. Deliciously sweet, with crisp, red flesh of excellent quality. The 10-inch, 10-pound fruits are a perfect size for the refrigerator. Pkt. 10c, oz. 25c, ¼ lb. 65c, ½ lb. \$1.15, lb. \$2.00, prepaid.

A Winter Melon →

382. WINTER MELON—(78 days.) Here's a sweet luscious watermelon for your Thanksgiving dinner, from your own garden. An early sort, very prolific and an excellent shipper. This melon will keep 2 months after picking if properly stored. Fruit: small, weight 10 lbs., round, pale yellow when ripening. Flesh: bright red, crystalline, very sweet. Pkt. 10c, oz. 20c, ¼ lb. 45c, ½ lb. 80c, lb. \$1.40, prepaid.



Northern Sweet

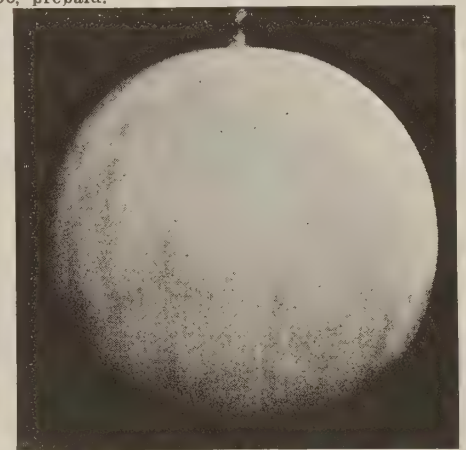


Ripens in 9 to 10 Weeks

A Giant Sweet Melon

383. KLECKLEY'S SWEET—(85 days.) A splendid medium early variety, especially desirable for home garden use and for truckers serving local markets. It will not stand long distance shipping. A melon of outstanding quality and unusual sweetness. Fruit: large, weight 30 to 40 lbs., cylindrical dark bluish green, with thin tender rind. Flesh is bright red, tender and extremely sweet. Seeds white. Pkt. 10c, oz. 20c, ¼ lb. 45c, ½ lb. 80c, lb. \$1.40, prepaid.

390. CITRON—For making preserves. Flesh: clear white and solid. Fruit: round and smooth, quite small. Pkt. 10c, oz. 20c, ¼ lb. 45c, prepaid.



382. Winter Melon—A long-keeping melon that you can enjoy for your Thanksgiving dinner.

Klondyke Sugar

Is Wilt Resistant

→ **387. KLONDYKE SUGAR**—(90 days.) For edible qualities and attractive appearance Klondyke is surpassed by no other melon. Solid dark green in color, with slight ribs running lengthwise. The rind is thick enough to stand shipping. Weight 25 pounds. The flesh is scarlet to the rind. A truly delicious melon, high in sugar content. Pkt. 10c, oz. 20c, ¼ lb. 55c, ½ lb. 90c, lb. \$1.65, prepaid.

Melons are never so delicious as when they ripen on the vine in your own garden.

Leek

A Species of Onion

Though belonging to the onion family, the flavor is milder and subtly different when used in soups and stews.

For white tender Leeks, transplant when six inches tall to shallow trenches setting plants 3 inches deep and gradually let the soil fill in. In fall, ridge the soil about the plants so as to blanch the stems.

312. LONDON FLAG—Stems 8 to 10 inches long, 1½ inches thick, white and attractive. Pkt. 15c, ½ oz. 60c, 1 oz. \$1.00, prepaid.

Mustard

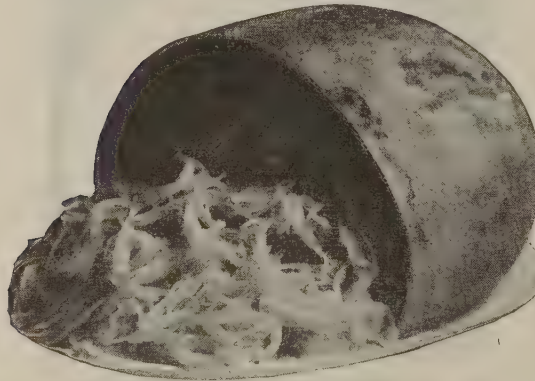
Used for Greens Same as Spinach

315. FORDHOOK FANCY—A handsome, mild variety, slow to bolt seed stalks; leaves bright green, plume-like, with fringed edges. Delicious as a salad, or cut and boiled like spinach. The reddish-brown seed is used for flavoring and in pickles. Pkt. 8c, oz. 20c, ¼ lb. 50c, lb. \$1.50, prepaid.

Noodle Squash

314. Smooth, creamy-white fruits, 8 inches long and 5 inches thick. Pick when well matured. Store like squash for winter. Before cooking, puncture one end, place in kettle of hot water and cook 30 minutes. Cut in half, remove center seed core, and flesh will fall out in shreds, suggestive of spaghetti. Serve hot with salt and butter, or with a cream sauce. Pkt. 10c, oz. 30c, prepaid.

Also Known
as Golden
Macaroni
or Vegetable
Spaghetti



Okra or Gumbo for Delicious Soups

Okra pods are used in soups, stews, salads, catsup and relishes, and are very popular in the South. The pods should be gathered each day, while they are tender and pulpy. They are at their best when from one to three inches long. Okra is a hot weather plant and the seed should not be sown until late May when the ground is thoroughly warm.

217. DWARF GREEN—Grows low, is very productive. Pkt. 10c, oz. 20c, ¼ lb. 50c, prepaid.

Order Onion Sets & Plants Early



We Feature Small Size Sets Only
More Sets per lb. and Better Quality

One pound for 25 feet of row; 12 bu. per acre
(32 pounds equal 1 bushel)

Shipment after March 15, prepaid to third zone only (300 miles). Add 5c lb. extra postage for shipments beyond.

Onion sets should be planted as early in spring as the ground can be worked and in a few weeks the delicious young onions are ready to serve on the table. Plantings may be successively made late into the summer, as long as the sets remain in good condition.

MARKET GROWERS WRITE FOR SPECIAL
QUANTITY PRICES

YELLOW BOTTOM SETS—The onions commonly planted in the home garden for early green onions, also for later use. Price: Lb. 35c, 2 lbs. 60c, 4 lbs. \$1.10, prepaid.—Not prepaid, pk. (8 lbs.), \$1.35 bu. (32 lbs.) \$4.75.

WHITE BOTTOM SETS—Very short crop. We reserve the right to substitute if sold out. Price: Lb. 40c, 2 lbs. 75c, 4 lbs. \$1.30, prepaid.—Not prepaid, pk. (8 lbs.) \$1.50, bu. (32 lbs.) \$5.00.

YELLOW MULTIPLIERS—Flavor much superior to ordinary onions. Price: Lb. 35c, 2 lbs. 65c, 4 lbs. \$1.15, prepaid.—Not prepaid, pk. \$1.80.

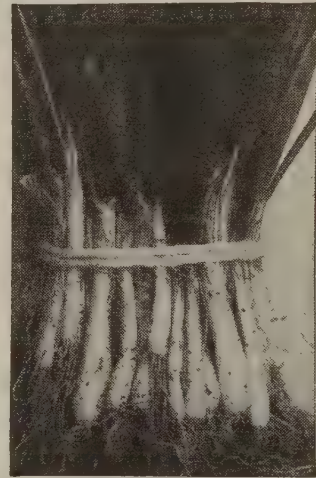
EBENEZER OR VICTORY ONION SETS—In shape and color, this variety resembles Yellow Globe Danvers, but it generally produces 50% more onions per acre. Its great superiority over other onions is the big yields, long-keeping quality, and freedom from going to seed. Ebenezer sets produce marketable onions in June and July, long before any others are ready. Price: Lb. 35c, 2 lbs. 60c, 4 lbs. \$1.10, prepaid.—Not prepaid, pk. (8 lbs.) \$1.35, bu. (32 lbs.) \$4.75.

Bermuda Onion Plants

Started in Texas from the finest strains of onion seed, the plants are lifted and shipped to be replanted in northern gardens. They will produce mild-flavored young green onions in the shortest possible time, or allowed to develop, will quickly grow to creaming or slicing size. Plant in rows 16 inches apart.

We can usually supply the following varieties: Yellow Bermuda, Crystal Wax, Prize-taker and Valencia, but in case of shortage we reserve the right to substitute.

Orders will be shipped at proper time for setting out. We prepay to third zone only (300 miles). Beyond that, at customer's risk. 40,000 plants are required to plant an acre. Yields of 50-75 bu. from 6,000 plants are reported. All orders booked subject to crop.



Price Prepaid
to 3rd zone

2 Bundles
55c
5 Bundles
\$1.25
10 Bundles
\$2.25

Not Prepaid
Per Case of
60 Bundles
WRITE FOR
PRICE

Weight of
Case 35 lbs.
Bundles Con-
tain 75 to
100 Plants

Onion Plants not available after May 1st

Garlic Sets

Used for flavoring stews, soups, meats, dressings and sauces. Garlic is a perennial, a member of the onion family, but of much stronger flavor. The bulb separates beneath a thin, papery skin into divisions or "cloves." These cloves are planted in rows 12 to 18 inches apart and 4 to 6 inches apart in the row and covered with an inch or two of soil. When the tops have died, the bulbs are pulled, braided together by their tops and hung in a dry, airy place to cure. ½ lb. 35c, lb. 60c, 5 lbs. \$2.75, prepaid.—Not prepaid, 10 lbs. \$4.75.



For Chives Plants see Page 27

SACCO
TRADE MARK REGISTERED
PLANT FOOD
Makes things Grow!
ANALYSIS-4-12-4

Used for years on lawns of fine homes—on golf courses—in private gardens—hot-houses—and nurseries of florists and commercial growers.

Ten lbs. is sufficient to fertilize plot of lawn 20x25 ft.; 25 lbs. will cover plot 30 x 40 ft. (Use 2 to 4 lbs. per 100 sq. ft.).

Price: 5-lb. pkg. 40c (postage to 3rd zone 20c extra), 10-lb. pkg. 70c (postage to 3rd zone 30c extra). By express or freight, not prepaid: 25-lb. bag \$1.40, 50-lb. bag \$2.40, 100-lb. bag \$3.75.

FOR GARDENS, LAWNS SHRUBS—PLANTS—TREES

A single application makes grass and vegetables grow vigorously and flowers and shrubbery beautiful with bloom and foliage. Quick results, easy to apply, only a small quantity required, no offensive odor.



"BOOST'EM" PLANT STARTER AND FERTILIZER

This remarkable formula increased tomato yields 4 tons per acre at Purdue University! An all-soluble chemical mixture that quickly dissolves in water to make a highly effective starter solution for transplanting Cabbage, Tomato, Melons, Peppers, Egg Plants, etc. Reduces transplanting shock, promotes earlier harvest, greater yields, better quality! See details page 27. Price: 1½ lb. can (makes up to 25 gal.) \$1.00, prepaid.

Dependable ONION SEED

One ounce will sow 100 feet of drill; 5 pounds per acre.

CULTURE—The soil should be very carefully prepared for onions. The richer the soil, the better the crop will be. Plenty of fertilizer and wood ashes, well spaded in, are essential. Sow the seed as early as the ground can be worked, in rows 15 to 18 inches apart, covering $\frac{1}{2}$ inch deep. When the seedlings are 3 or 4 inches tall, they should be thinned out to stand 3 inches apart in the row. Keep them free from weeds and hoe often.

Long-Keeping Winter Onions

395. SOUTHPORT RED GLOBE—113 days. The finest of the red onions. Bulbs perfectly round, of good size, with small neck and thick, deep purplish red skin; flesh white, tinged with pink; a wonderful keeper and a heavy yielder. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.50, prepaid.

396. EXTRA EARLY YELLOW GLOBE—98 days. A money-maker for the early market. Ten days earlier than Southport Yellow Globe, and an exceptionally good keeper for so early a variety. Bulbs semi-globe shape, solid, uniform and attractive, with deep yellow color. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.50, prepaid.

397. MINNESOTA SOUTHPORT YELLOW GLOBE—112 days. A handsome, golden yellow globe, with tough, clinging skins. Flesh white, with creamy tone. Will keep in storage longer than any other. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.50, prepaid.

Large Mild Onions for Slicing

398. MINNESOTA SOUTHPORT WHITE GLOBE—110 days. A very attractive pure white onion. Bulbs round, solid, medium sized, with thin delicate skin. Flesh waxy white, fine grained and mild. Keeps well in fall storage. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.35, lb. \$4.75, prepaid.

405. WHITE BERMUDA OR CRYSTAL WAX—90 days. Both skin and flesh clear white; of mild delicate flavor. Bulbs very flat; medium sized. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.35, lb. \$4.75, prepaid.

412. SWEET SPANISH OR VALENCIA—110 days. A mild, sweet, giant onion, of the true Spanish or Bermuda type. Bulbs globular with small neck, pure white, firm and delicious at all stages of growth. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.35, lb. \$4.75, prepaid.

414. MIXED ONION SEED—Will furnish a supply of onions all summer and for winter storage, as it contains a mixture of all varieties. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.10, lb. \$4.00, prepaid.

A pure white mild-flavored onion.

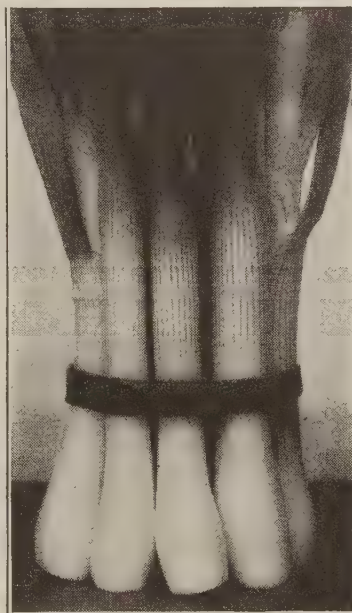
Minnesota Southport White Globe.

404. BRIGHAM YELLOW GLOBE—110 days. Highly productive, with exceptional keeping qualities. Bulbs globular with rounded bottom; a deeper blockier type than Yellow Globe Danvers; solid, well covered with tight-fitting thick skins. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.50, prepaid.

407. YELLOW GLOBE DANVERS—110 days. A popular strain of Yellow Globe. Hardy and a good cropper; used largely for storage. Bulbs medium large, round, yellow, firm, with small neck. Flesh white, with slight yellow tone. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.50, prepaid.

Carco Spray controls Root Maggots.
Not a poison—Easy to use. See page 21 for prices.

Early White Welsh → for the first green onions in early Spring. Tender, and of delicate flavor.



SEEDS TREATED WITH New ARASAN

Produce Strong Heavy-Yielding Plants

And that's what brings in the dollars! Results obtained from tests showed that the stand for untreated seed was 64 per cent, while that for the Arasan-treated seed was 83 per cent, or an improvement of nearly 30 per cent. Arasan is a simple easy-to-use dust treatment and pays for itself many times over. Full Directions Included With Each Package.



For Bigger and Better Vegetables Use ARASAN

Price:
1-oz. pkt. 16c
prepaid

Not prepaid
8-oz. can 80c
5-lb. can \$6.45



Brigham Yellow Globe
A good keeper

Onions for Bunching

400. GIANT CHINESE GREEN ONION. "One-a-Meal"—(Perennial.) Produces straight white bulbless stems, which grow 25 to 30 inches long and 2 $\frac{1}{2}$ inches in diameter. Of mild flavor. Pkt. 25c.

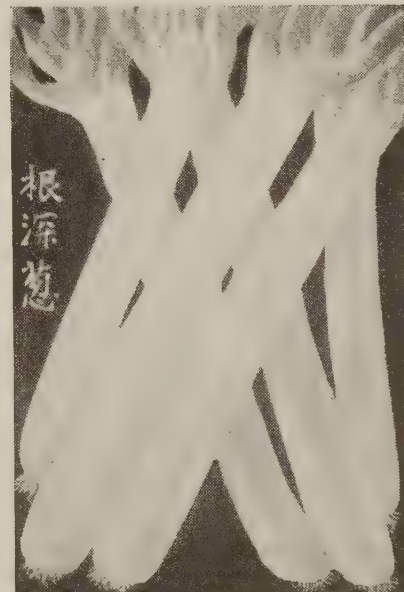
409. CHINESE EVERGREEN WHITE BUNCHING—(Perennial.) A bulbless bunching variety, grown for its long, slender, pure white stems. Tender and of delicate flavor, the onions are produced in clusters and are double the size of ordinary bunching onions. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.35, prepaid.

410. EARLY WHITE WELSH—A hardy perennial, used exclusively for green bunching onions. This variety does not produce bulbs, but provides a good crop of the finest green onions for the market early in spring, in advance of those from sets. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25, prepaid.

415. EARLY WHITE BUNCHING—(Annual.) Here's an exceptionally early green bunching onion. An annual which forms small bulbs for green table onions—of real quality and mild flavor. Used by leading gardeners for the early market. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.35, prepaid.

These for Pickling

411. WHITE PORTUGAL OR SILVER SKIN—(Medium Early.) An all-purpose onion, excellent for sets, as a pickler, for green bunching and for storage. Bulbs: medium size, thick flat, clear white, hard, fine grained and of pleasing flavor. It is a dependable cropper. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.35, prepaid.



Chinese Evergreen Bunching Onions.

Luscious PEAS from Your Own Garden

One pound will plant 100 feet of drill.



Little Marvel—
Dwarf early
Pea of
delicious
flavor.

CULTURE—Peas are a cool-weather crop and must be planted as soon as the ground can be worked in spring. A rich, light soil is required and plenty of water if a full crop is to be produced. It will pay to use a balanced commercial fertilizer in the row when the seeds are sown. (See page 76.) Sow in rows 2 feet apart and 2 inches apart in the row. Avoid crowding, as closer planting will produce no greater crop. Tall varieties must be supported with light stakes or brush.

Dwarf Early Wrinkled Peas

461. LAXTON'S PROGRESS—(62 days.) The largest podded and most attractive of the Laxtonian family. A good sort for shipping to distant markets, also for home and market garden planting. Of fine quality and abundant yield. Vines: 17 inches high, medium dark green. Pods: 4 1/4 inches long, dark green, handsome; contain 7 to 9 large peas of good quality. Seeds: large, wrinkled, cream with green color. Mammoth pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 24c per lb.

471. LITTLE MARVEL—(64 days.) We especially recommend this variety to the home gardener. It is the most prolific of the Early Dwarf Peas and remains in prime picking condition a week longer than the older sorts. Very productive, hardy, luscious and sugary. Vines 18 inches high; pods 3 inches long, plump, well filled with 7 to 8 tender peas. Seeds light green, squarish, wrinkled. Mammoth pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 24c per lb.

474. PREMIUM GEM—(64 days.) A highly productive, medium early variety good for home gardening and for canning. Vines: 20 inches high, dark green. Pods: 2 3/4 inches long, light green, contain 6 to 7 peas. Seeds: wrinkled green. Mammoth pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 23c per lb.

Kerr Home Canning and Recipe Book

Illustrated in Color

An enlarged and attractive edition, which contains valuable information on every phase of Home Canning and more than 300 Tested Recipes. Instructions and Recipes are simple enough for the beginner, yet so complete as to be invaluable in the home.

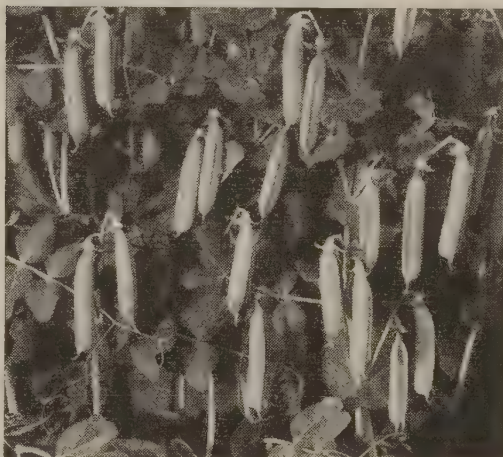
55 Pages — Price 10c ppd.

Free—A copy of this book will be sent free with a \$2.00 order for Garden Seeds or with a \$5.00 order for Field Seeds. Ask for it.

Extra Early Peas

447. EARLY ALASKA—(57 days.) (Smooth seeded.) The first early variety for market gardeners. Also very extensively used for canning. Crop matures evenly. Our strain is noted for its pod size and productivity. Vines: 30 inches long. Pods: light green, round, contain 6 to 8 peas of good quality. Seeds: small, round, smooth, bluish green. Mammoth pkt. 8c, 1/2 lb. 18c, 1 lb. 30c, 5 lbs. \$1.40, prepaid.—Not prepaid, 10 lbs. at 21c per lb.

448. EARLY EIGHT WEEKS—(58 days.) The vines of Early Eight Weeks are from 18 to 22 inches high, and bear profusely. The pods are blunt, medium green and contain from 5 to 7 peas of fairly large size and excellent quality. Extensive tests made over a period of three years have shown this variety to be nearly 100% resistant to pea blight, a wilt affecting peas when they are planted too often in the same ground. Seeds: wrinkled, medium green. Mammoth pkt. 1 c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 24c per lb.



Laxton's Progress—Early, large-podded, heavy-yielding and of excellent quality.

472. AMERICAN WONDER—(61 days.) Our stock of this old popular pea is the true extra-dwarf, early strain. Well suited to home gardening and highly productive. Vines: 12 to 14 inches high, dark green. Pods: 2 3/4 inches long and filled with 6 peas. Seeds: wrinkled, square, green. Mammoth pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 24c per lb.

Treat Garden Peas, Garden Beans and Sweet Peas Before Planting

For Bigger Yields and Better Quality

Legume-Aid causes nodules to develop on the roots of the peas. These nodules gather nitrogen from the air and convert it into plant food, thus storing plant food in the soil. Legume-Aid contains all the essentials for healthy bacterial growth.

GARDEN SIZE PACKET 10c ppd.

Treats up to 5 Pounds of Peas, Beans or Sweet Peas.

LEGUME-AID

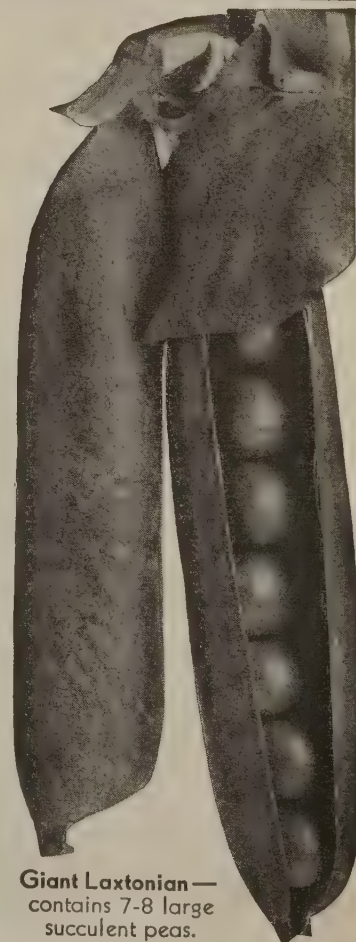
F. S. & N. Co's Succession Collection

Fresh Peas All Summer!

IMPORTANT—All varieties in this collection must be planted at *one time*, as early in the spring as the ground can be worked, and they will mature in succession.

EARLY ALASKA (57 Days)
LITTLE MARVEL (64 Days)
POTLATCH OR BIG DINNER (78 Days)

1 pkt. of each (3 pkts.)...23c
1/2 lb. of each (1 1/2 lbs.)...52c
1 lb. of each (3 lbs.)...95c } Ppd.



Giant Laxtonian—contains 7-8 large succulent peas.

Midseason and Main-Crop Peas

Late Peas should be planted early, as they yield better. Plant them 3 inches deep and 3 inches apart in the row. Brush provides the best support, but if not obtainable, chicken wire fastened to stout stakes may be used. The supports should be placed as soon as the peas are planted.

Medium Height Peas

478. TENDER GIANT—(75 days.) Experts consider this one of the finest all-purpose peas. Unsurpassed in quality, ideal for canning and quick freezing, popular with market gardeners for its heavy yield and excellent shipping qualities. Vines grow about 24 inches high and are fully resistant to Fusarium wilt. Pods, uniformly large and handsome, contain 8 to 10 luscious tender peas. Seeds: large, wrinkled light green. Mammoth pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 24c per lb.

480. POTLATCH OR BIG DINNER—(78 days.) One of the very finest late varieties for home garden and for shipping to distant markets. Potlatch is famous for its heavy yield of immense pods bearing many large luscious peas of delicious flavor. Vines: 26 inches high, deep green. Pods: 4 1/2 inches long, 7/8 inch wide; contain 8 to 10 tender, succulent peas. Seeds: large, wrinkled, green. Mammoth pkt. 10c, 1/2 lb. 22c, 1 lb. 40c, 5 lbs. \$1.70, prepaid.—Not prepaid, 10 lbs. at 26c per lb.

486. DWARF TELEPHONE OR DAISY—(75 days.) A late, large-podded, highly-productive sort for home garden and truckers. A good shipper and resistant to Fusarium wilt. Our strain is unsurpassed in size and appearance of pods. Vines: 22 inches high. Pods: 4 1/2 inches long, broad, pointed and attractive; contain 8 to 10 peas of excellent quality. Seeds: large, wrinkled, bluish-green. Pkt. 10c, 1/2 lb. 22c, 1 lb. 40c, 5 lbs. \$1.70, prepaid.—Not prepaid, 10 lbs. at 26c per lb.

Edible Pod Peas

Are Cooked and Eaten like String Beans

The young pods are sweet and delicious if picked just when the peas are beginning to form in the pod.

492. DWARF SUGAR—(68 days.) Sugar Peas have the tenderness and fleshy podded qualities of snap beans, and the flavor and sweetness of fresh green peas. When young, pods are stringless, brittle and succulent. The vines grow to a height of 26 inches, and should be given support of string or brush for best results. Mammoth pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 24c per lb.

For Split Pea Soup

495. CANADA SOUP PEAS—(85 days.) Resistant to Fusarium Wilt. A very productive late Pea grown extensively for dry use. The plants grow very tall and bear an abundance of light green, blunt pods. The seed is small, smooth, creamy white. Mammoth pkt. 8c, 1/2 lb. 15c, 1 lb. 25c, 5 lbs. \$1.20, prepaid.—Not prepaid, 10 lbs. at 20c per lb.

The Secret of Success in Growing Peas

Instead of planting at 2 or 3 week intervals, plant the early, midseason and late varieties *all at one time* in early spring, just as soon as the ground can be worked, and the different varieties will bear in steady succession.

Plant before April 19th if possible—if a heavy snow wets them down, your success is almost assured.

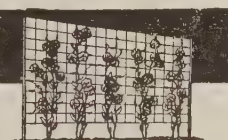
Tall Late Varieties

484. EVERBEARING—(76 days.) An extra long bearing period makes this a popular variety. Everbearing is resistant to Fusarium wilt, and is noted for its high quality and heavy yield. Vines: 32 inches high. Pods: 4 inches long, plump; contain 4 to 5 large peas of sweet marrowy flavor. Seeds: very large, light green, flat, wrinkled. Mammoth pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 24c per lb.

505. TALL TELEPHONE—(74 days.) This handsome large podded variety is known as the Standard Late Pea. Bears uniformly large pods, 5 inches or more long, filled with 8 to 10 peas of delicious, tender quality. Vines grow 4 ft. high, are resistant to fusarium wilt, and yield a heavy crop. Excellent for home garden, freezing and for shipping to distant markets. The seed is large, wrinkled, light green. Mammoth pkt. 10c, 1/2 lb. 20c, 1 lb. 35c, 5 lbs. \$1.50, prepaid.—Not prepaid, 10 lbs. at 24c per lb.

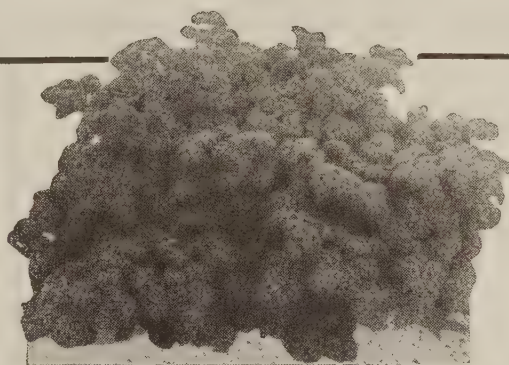
TRAIN-ETTS

New Weatherized TRELLIS NETTING



PEAS, GARDEN PEAS, POLE BEANS, CUCUMBERS, TOMATOES

Grows finer, larger flowers and vegetables. Hung with ease in 5 minutes: no fuss or bother. Use instead of string or wire. (Wire in sun burns delicate tendrils.) Doesn't rot like string—lasts several seasons. In 3 sizes, No. 1, 60x72 in. 65c; No. 2, 60x96 in. 85c; No. 3, 60x180 in. \$1.25. Postpaid.



The beautiful rich green leaves of Curled Parsley are high in food value.

Parsley

One ounce will sow 150 feet of drill.

Sow seeds as early in spring as possible, in shallow drills, covering with about 1/2 inch soil. Three to four weeks are required for germination.

430. MOSS CURLED—Dwarf and compact in habit, with densely curled and finely cut leaves of a rich dark green color. Should be freely used in salads, soups and sauces, as it is a valuable source of vitamins A, C, and B1, and it supplies calcium, phosphorus, iron and copper. Pkt. 10c, oz. 15c, 1/4 lb. 50c, 1/2 lb. 75c, 1 lb. \$1.40, prepaid.

431. HAMBURG OR THICK-ROOTED—The thick fleshy roots form the edible part of the plant, and impart a delicate Parsley flavor when used in soups and stews. Pkt. 10c, oz. 15c, 1/4 lb. 50c, 1/2 lb. 75c, 1 lb. \$1.40, prepaid.



Peas Best Suited to Quick Freezing: Tender Giant, Laxton's Progress, Tall Telephone.

Potlatch bears immense luscious peas.

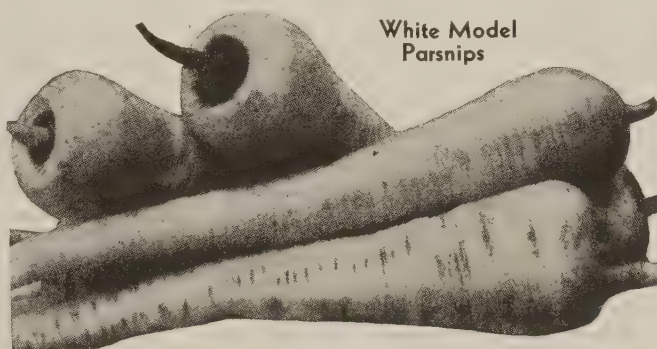
Parsnips

One ounce will sow 150 feet of drill.

Sow outdoors about April 15th in drills 2 feet apart; cover seed with 1/2 inch soil; thin out to 4 inches apart. To aid quick and proper development plow or spade the soil deeply before planting. Parsnips remaining in the ground over winter and dug during the spring thaw will be extra sweet and tender.

426. HOLLOW CROWN (Guernsey)—(95 days.) Roots about 12 inches long, uniformly tapered, with a diameter at top of 2 1/2 inches. Tender and sugary. Pkt. 8c, oz. 15c, 1/4 lb. 50c, 1/2 lb. 75c, 1 lb. \$1.40, prepaid.

428. WHITE MODEL—(95 days.) The Smoothest and Whitest Parsnip. Of medium length, fine shape and clean smooth skin; flesh tender, sweet and fine textured. Pkt. 10c, oz. 20c, 1/4 lb. 65c, 1/2 lb. \$1.20, 1 lb. \$1.90, prepaid.



White Model Parsnips

Peas and Parsley are rich in Vitamins and Iron so necessary for bodily health.

PEPPERS—Mild and Sweet

One ounce of seed for 1,000 plants. ¼ lb. to transplant one acre.

Pepper Plants
Page 27.



Minnesota
Wonder—
A blocky
thick-fleshed
pepper excellent
for stuffing.

CULTURE—Sow seed in flats, or in the hot-bed in March, and transplant seedlings, when 3 or 4 inches high to other flats or to paper pots. About the last of May, transplant to the garden, in rich, well-prepared soil, setting the plants in rows 3 feet apart, 20 inches apart in rows.

NOTE—The time from setting out plants to marketable condition is indicated here.

For Pepper Grass or Cress see page 26.

432. KING OF THE NORTH—(64 days.) An early large pepper especially valuable in northern states. Fruits are enormous in size and color up a brilliant red much earlier than any other large sort. They average 6 inches long, 4 inches across. The flesh is thick, firm, very sweet and mild. Plants are literally covered with large peppers. Often one plant will have 8 to 10 mature fruits. Pkt. 10c, ½ oz. 30c, oz. 50c, ¼ lb. \$1.75, prepaid.

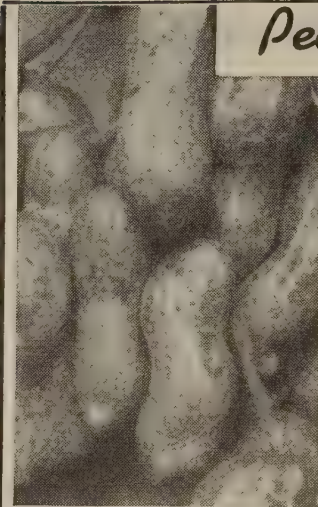
434. HARRIS EARLY GIANT—(63 days.) An excellent first early sweet variety, for home and market garden use. Fruits resemble Bull Nose in form. Plants: dwarf, upright, very productive. Fruits: 4½ inches long, 3½ inches thick; gently tapered, 3-lobed, of sweet mild flavor; deep green changing to bright red. Pkt. 10c, ½ oz. 30c, oz. 50c, ¼ lb. \$1.75, prepaid.

435. MINNESOTA WONDER—(68 days.) A real quality pepper, mild and sweet. It produces smooth uniform fruits 4 inches in diameter and 5 inches long, mostly 4-lobed. The color is deep green, changing to bright crimson at maturity. The flesh is solid and thick. Pkt. 10c, ½ oz. 30c, oz. 50c, ¼ lb. \$1.75, prepaid.

437. LARGE BELL or BULL NOSE—(58 days.) A popular early sweet variety. The first on the early market. Plants: small, erect, prolific. Fruits: 3 inches long, 2¾ inches thick; blunt, deep green—changing to scarlet red: sweet, mild in flavor. Pkt. 10c, ½ oz. 30c, oz. 50c, ¼ lb. \$1.75, prepaid.

442. RUBY KING—(68 days.) Excellent for home and market gardening, also for shipping. Plants: medium dwarf, erect, vigorous, and very productive. Fruits: 5 inches long, 3 inches thick; tapering, dark green changing to ruby red at maturity. Flesh: thick, mild and sweet. Pkt. 10c, ½ oz. 25c, oz. 45c, ¼ lb. \$1.65, prepaid.

Peanuts



As
Easy
to
Grow
as
Potatoes

Ask for
Free
Leaflet

Large Virginia Peanuts.

514. EARLY SPANISH—The earliest variety, and best for the North. Plants are upright and compact, with small pods and nuts of fine flavor. Large pkt. 10c, ½ lb. 35c, lb. 65c, 5 lbs. at 60c per lb., prepaid.

515. LARGE VIRGINIA—The main crop peanut, and the most extensively grown. Plants are erect, and of vigorous, rapid growth, with very large pods and nuts. Fine for dry, sandy soil. Large pkt. 10c, ½ lb. 35c, lb. 65c, 5 lbs. at 60c per lb., prepaid.

Rhubarb Seed

One ounce will plant 500 feet.

CULTURE—Sow in April in drills one foot apart, covering ¾ inch. Thin out to 12 inches apart in row, when a few inches high. The following spring transplant to deep rich soil, 3 feet apart.

581. VICTORIA—A vigorous grower, with thick red stalks of excellent quality. Pkt. 10c, ½ oz. 15c, oz. 25c, ¼ lb. 90c, prepaid.

FOR RHUBARB ROOTS SEE PAGE 26

Tobacco Seed

One ounce of seed will produce plants for one acre.

519. CONNECTICUT SEED LEAF—Grown principally for the manufacture of cigars. Hardy, prolific, and well suited to production in the north and central states. Pkt. 10c, ½ oz. 35c, oz. 60c, prepaid.

Pumpkins

565. SUGAR PIE—(108 days.) Most desirable for pies. Very fine grained, sweet and a splendid winter keeper. Fruits: 10 inches thick, weight 6 to 8 lbs.; skin hard, smooth, somewhat ribbed, deep orange. Flesh: thick, sweet, orange-yellow, and of high quality. Pkt. 8c, oz. 10c, ¼ lb. 25c, lb. 90c, 5 lbs. at 85c per lb., prepaid.

Cheyenne New Pie Pumpkin
of True Bush Type

566. CHEYENNE—(100 days.) A genuine bush form pumpkin, recently introduced by the University of Wyoming. Of small, handy size, the fruits are brilliant orange, with fine-grained, solid flesh, of deep golden-yellow, excellent for pies. Plants are very prolific. Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. \$1.50, prepaid.

For Color Photo Cheyenne Pumpkin See Page 80.

New Field Pumpkin

570. DICKINSON FIELD—(Matures in 110 days.) Developed at Purdue University, this new pumpkin is far superior to all others in quality, with finer grained, thicker flesh. Commercial canners prefer Dickinson for its exceptionally high sugar and protein content, its uniform golden color and heavy yield. Often produces 25 tons to the acre. Fruits are large, elongated, and weigh from 15 to 20 lbs. The color is a deep, clear, golden yellow throughout. For pies, for canning and stock feed, we consider it the best on the market. Pkt. 8c, oz. 10c, ¼ lb. 30c, lb. \$1.10, 5 lbs. at \$1.00 per lb., prepaid.

PYROCIDE DUST protects Pumpkin Vines from squash bugs and beetles, which attack the leaves, causing them to wilt and become blackened and crisp. PYROCIDE is easy to use and it is non-poisonous. See page 12 for prices.

1 oz. for 25 hills, 4 lbs. per acre.
Plant like squash, 3 or 4 seeds
per hill and thin to 1 plant per hill.



Sugar
Pie.

Sweet
and
Delicious.

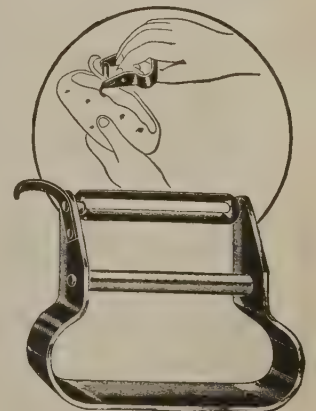
574. MAMMOTH KING or JUMBO—(Matures in 120 days.) The largest of all pumpkins. Valuable for stock feeding and exhibition purposes. Fruits: 20 to 24 inches in diameter, weight 60 to 90 lbs., very large, globular, slightly ribbed, flattened; skin light yellow, mottled with yellow and frequently slightly netted. Flesh: solid, coarse, but of fair quality. Pkt. 8c, oz. 12c, ¼ lb. 35c, lb. \$1.20, 5 lbs. at \$1.10 per lb., prepaid.

576. PRIZE COLLECTION MIXTURE—A mixture of the best varieties described above, all shapes and sizes, large and small. Just the thing for growing varieties to exhibit at county or state fairs. There is bound to be a prize winner. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 90c, 5 lbs. at 85c per lb., prepaid.

Kitchen Wonder Tool

Peels,
Slices,
Shreds!

only
35¢
ppd.



This practical gadget takes the drudgery out of peeling fruits and vegetables. Quicker than a knife. Peels potatoes, and removes the eyes and decayed spots quickly. A scientific tool with tempered steel blade. Saves your fingers from stain, saves you from hard work in peeling potatoes, carrots, cukes, apples, etc. It strings beans and celery, shreds cabbage, chocolate or soap.

RADISHES *must grow Quickly* *To be Tender and Crisp*

Early Red Robin

Ready to pull
in 16-20 Days!

One ounce will sow 100 feet of drill, 9 to 10 pounds per acre.

CULTURE—Quick growth makes Radishes crisp and tender, and to grow well, they must have cool weather and light, rich soil. Cover seed $\frac{1}{2}$ inch. To have a continuous supply for the table, sow as early in the spring as possible, and at intervals of 10 days thereafter until May 15th. To have Radishes in fall, three sowings of early varieties may be made at weekly intervals, beginning August 15th.

Wormy Radishes can be controlled by spraying with Carco. By practicing crop rotation, and changing the planting site each year, serious soil infestation can be overcome.

Quick - Maturing Varieties

524. EARLY RED ROBIN

—Profitable Early Market Variety. Ready to pull in 16 to 20 days. Color: rich scarlet; flesh, snow-white, crisp, juicy and mild; shape, slightly elongated globe. It costs twice as much to produce Red Robin Radish Seed, because it is grown from transplanted roots, insuring absolute uniformity and true type. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid. Not prepaid, 5 lbs. at \$1.00 per lb.



525. EARLY SCARLET TURNIP—(26 days.) Scarlet-red, flesh crisp and tender. Roots quickly grow to an inch in diameter, turnip-shaped. Excellent for early planting. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. 95c, prepaid. Not prepaid, 5 lbs. at 80c per lb.

526. EARLY SCARLET TURNIP WHITE TIP—(26 days.) A table dainty, crisp, tender and sweet. It is turnip-shaped, bright scarlet with a white tip, appealing to the eye and palate. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. 95c, prepaid. Not prepaid, 5 lbs. at 80c per lb.

530. EARLY SAXA—(22 days.) One of the earliest radishes, and slow to run to seed. Tops small, roots round and bright scarlet. A good forcing sort and for first outdoor planting. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid. Not prepaid, 5 lbs. at \$1.00 per lb.



French Breakfast—excellent for the home garden—early, sweet, crisp and tender.

Firecracker An Early Radish

Remains crisp and mild long after maturity.

531. FIRECRACKER—(22 days.) Distinct in type, this radish is long and slender, vivid scarlet in color and although very early, it remains crisp and tender much longer than other early sorts. Seed of this variety was formerly imported, but we have succeeded in growing our own seed. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50, prepaid. Not prepaid, 5 lbs. at \$1.25 per lb.

535. IMPROVED EARLY SCARLET GLOBE—(24 days.) Very early crisp, mild and tender. Bright scarlet in color, of uniform globe shape. One of the best for forcing and outdoor planting. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. 95c, prepaid. Not prepaid, 5 lbs. at 80c per lb.

538. FRENCH BREAKFAST—(25 days.) A splendid variety for home use, oblong, blunt, about 2 inches long, it is rich scarlet in color, with a white tip. Flesh is solid, crisp and sweet. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. 95c, prepaid. Not prepaid, 5 lbs. at 80c per lb.

540. CRIMSON GIANT—(28 days.) Largest of all the early round radishes, of fine mild quality, it remains in perfect condition until an inch in diameter. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25, prepaid. Not prepaid, 5 lbs. at \$1.00 per lb.

All - Season Radish Collection

One Pkt. Each	{ Early Red Robin Firecracker Crimson Giant White Icicle	30¢ ppd.
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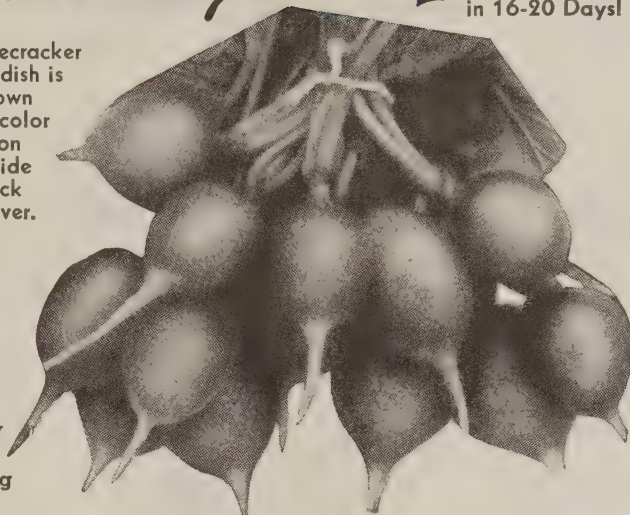
One ounce each of above four varieties for 50c ppd.

546. WHITE ICICLE—(27 days.) Flesh remains crisp and tender until roots attain large size. Roots: 6 inches long, slender, tapering at the tip, very white. Flesh: clear white, brittle and of mild, inviting flavor. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. 95c, prepaid. Not prepaid, 5 lbs. at 80c per lb.

542. MIXED RADISHES—This mixture contains early, summer and winter varieties; all kinds, colors and shapes, a large assortment, ready for the table, early, medium and late. You always have some that are just right, sweet, tender and juicy. This mixture is for a small garden, where space is limited and one sowing does for the whole season. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. 95c, prepaid. Not prepaid, 5 lbs. at 80c per lb.

If you have a surplus of radishes, peel some of them, boil for about 5 minutes, slice them, and serve hot with butter and a little cream.

Firecracker Radish is shown in color on Inside Back Cover.



Winter Radishes

Sow in early July and allow to develop during the fall months. Dig before frost and store in a cool place.

555. CALIFORNIA WHITE MAMMOTH—(60 days.) An excellent variety with crisp white flesh of mild flavor. Roots grow 8 inches long and 2 inches thick, cylindrical and thickest at lower end. Fall and winter radishes require from two to three months to mature and the seed should be sown in midsummer. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. 95c, prepaid. Not prepaid, 5 lbs. at 80c per lb.



White Icicle has crisp white flesh of mild inviting flavor.

CARCO SPRAY

rids your garden of
ROOT MAGGOTS

$\frac{1}{2}$ Pint
60¢
Ppd.

Root Maggots attack your CABBAGE, CAULIFLOWER, CARROTS, ONIONS, BEETS, RADISHES and TURNIPS. Use CARCO SPRAY, early in spring, to prevent deposit of maggot eggs. NOT A POISON. Order early and use it in time! One-half pint makes six gallons of spray. Easy to use—complete directions with order.

Pint 85c; Quart \$1.40 Prepaid

"Hybrid Gold" is a New Pop Corn you will want to grow—it pops to great flaky, tender kernels of a rich butter color. See page 11.

One ounce
plants
100 foot
row.



Bloomsdale Spinach has thick, glossy green leaves, attractively crumpled.

SPINACH—Important in Your Diet

Contains Vitamins A, C, G, Calcium and Iron

Culture—Spinach succeeds best during the cool, moist weather of early spring, and should be sown just as soon as the ground can be worked, in rich, well-drained soil. Make a shallow furrow and cover the seed with $\frac{1}{2}$ inch of soil, then firm. Make the rows 8 to 12 inches apart. As the crop matures in 5 to 6 weeks, it can be planted between rows of slower-growing crops. Pull up the plants as soon as they go to seed.

584. KING OF DENMARK—(45 days.) Highly desirable for canning and for market gardens. Large, spreading plants carry broad, rounded, very dark green leaves which are somewhat crumpled. Excellent for spring planting as it is slow to go to seed. Very hardy and of good quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00, prepaid. Not prepaid, 5 lbs. at 85c per lb.

585. TENDERGREEN MUSTARD SPINACH—A quick-growing variety, producing large, dark green leaves with small lighter green ribs. It is the only vegetable that is ready for table or market in 21 to 24 days after planting, and will produce from 8 to 9 crops a year. Mildly pungent, combining the flavors of mustard and spinach. May be used in salads or boiled like spinach. Pkt. 8c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.15, prepaid. Not prepaid, 5 lbs. at 90c per lb.

586. BLOOMSDALE SAVOY LEAVED—(39 days.) A very early, vigorous variety, desirable for home gardens, for shipping to distant markets and for canning. Plants erect in growth, hardy and attractive. Leaves large, crumpled, somewhat blistered; dark glossy green. Seeds fairly early. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00, prepaid. Not prepaid, 5 lbs. at 85c per lb.

587. NEW ZEALAND—(60 days.) This green, distinct from spinach proper, thrives in hot dry weather. It makes a large plant, with small, thick, deep green leaves, and grows with a branching, spreading habit to a diameter and height of two feet or more. Both leaves and stalks are fleshy and brittle and of finest quality when cooked. In harvesting cut only the 4-inch tips of branches. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 70c, lb. \$2.50, prepaid. Not prepaid, 5 lbs. at \$2.25 per lb.

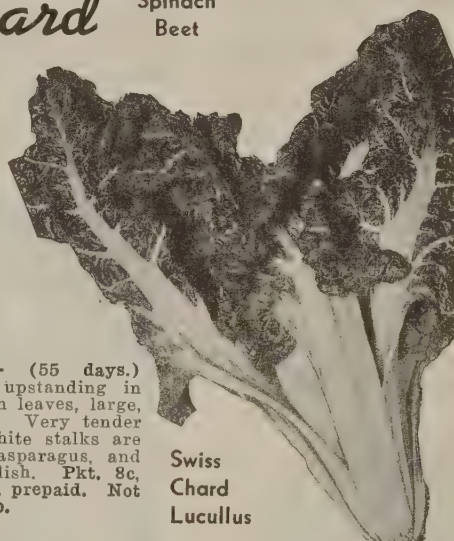
Swiss Chard

Spinach
Beet

One ounce will sow
100 feet of drill.

Swiss Chard is a summer green that will stand the hottest weather and continue to produce until frost. Use only the young tender leaves six to twelve inches long. Old large leaves must be pulled off and disposed of at regular intervals.

588. LUCULLUS — (55 days.) Forms tall, sturdy plants, upstanding in habit of growth. Light green leaves, large, broad and heavily crumpled. Very tender when cooked. The thick white stalks are splendid for creaming like asparagus, and provide a most appetizing dish. Pkt. 8c, oz. 18c, $\frac{1}{4}$ lb. 60c, lb. \$2.25, prepaid. Not prepaid, 5 lbs. at \$2.00 per lb.



Swiss
Chard
Lucullus

Eat leafy greens
for health—Swiss
Chard is rich in
vitamins.

New
Crimson
← Chard

Has a Sweet, Delicate
Flavor You Never Knew
Existed in a Leafy Vegetable

589. RHUBARB CHARD —(60 days.) The leaf-stalks, considered by many as the most delicious part of the Chard plant, are bright crimson, the rich color extending out through the veins into the dark green, heavily crumpled leaves. Grow and cook it as you would other Chards, and you will find it even more delicious. The plant is so decorative and striking in appearance that it may be grown in the flower garden. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.35, prepaid.



A
Swiss
Chard
with
bright
crimson
stalks.

All-Season "Greens" Collection

One
Pkt.
Each

Bloomsdale Spinach
New Zealand Spinach
Swiss Chard Lucullus
Tampala

32¢
ppd.
Value 38c

Tampala

The Three-in-One
Vegetable!

Contains Carbohydrates, Minerals,
Protein and Vitamin A

1—Cooked Tampala
is different in flavor
from all other greens.

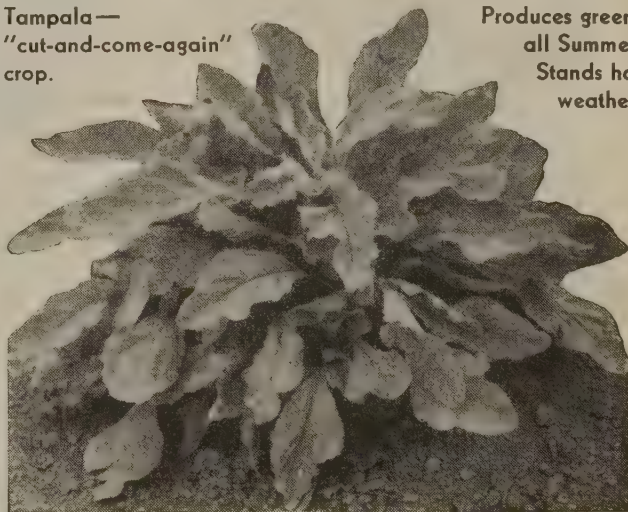
2—Young leaves,
finely chopped, make
a refreshing salad.

3—Tampala stems
too are tender and
tasty. Remove leaves,
cook and serve like
asparagus.

590. TAMPALA — The tasty new vegetable from China. Smooth, tender, rich green leaves—cooks in five minutes and holds its appetizing color. Different in flavor, it is a delightful change from all other greens. A real "cut-and-come-again" vigorous grower, ready to cut six weeks after planting. New shoots and leaves keep coming even in hot weather. Plants grow 2 ft. tall, $1\frac{1}{2}$ ft. across, and will not go to seed. Pkt. 15c, $\frac{1}{2}$ oz. \$1.00, oz. \$1.75, prepaid.

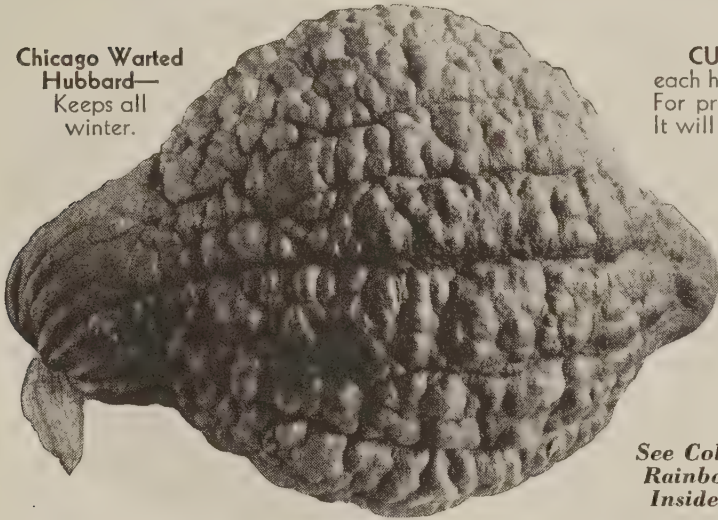
Tampala—
"cut-and-come-again"
crop.

Produces greens
all Summer.
Stands hot
weather.



SQUASHES *bred to Highest Quality*

**Chicago Warty
Hubbard—**
Keeps all
winter.



One ounce plants 50 hills—3 to 4 pounds per acre.

CULTURE—Sow in full sun, in warm, rich soil in hills, allowing 6 seeds to each hill. When plants have 3 or 4 leaves thin out leaving the 3 strongest plants. For protection against the squash borer, cover vine with soil at several joints. It will take root where covered and limit the damage done by the borer.

Here is a New Squash
with Real Quality!
603—Butternut →
Exceedingly
Meaty, Superb
in Flavor,
Fine-textured
Dry and Sweet.

See Color Photo New
Rainbow Squash on
Inside Back Cover.



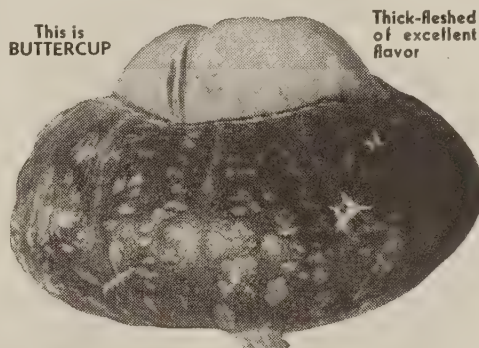
Long-Keeping Winter Varieties

597. BLUE HUBBARD—(110 days.) Superior in edible quality, larger in size and a better yielder and keeper than other Hubbard strains. Fruits large, round, pointed at both ends; slightly ribbed, with very hard, blue-gray rind; weight 12-14 lbs. Flesh orange-yellow, thick, of fine flavor. Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. \$1.85, prepaid.

598. CHICAGO WARTED HUBBARD—(110 days.) Very prolific and a good keeper. The dark green fruits are heavily warted, pointed at one end and weigh about 14 pounds. The flesh is bright orange, fine grained, dry and sweet. Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. \$1.85, prepaid.

599. IMPROVED GREEN HUBBARD—(105 days.) A standard winter sort for home or market. Fruit: 12 inches long, 9 inches diameter; weight 12 pounds, pointed at both ends, slightly warted, dark bronze green in color; rind hard and tough. Flesh: very thick, orange-yellow, dry and sweet. Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. \$1.85, prepaid.

600. NEW RAINBOW—(103 days.) Developed from a cross between Greengold and Banana, this handsome squash is a delicate salmon-pink, striped and mottled gray-blue. Fruits are banana-shaped, 15 inches long, 4 inches in diameter and weigh about 4 lbs. The skin is smooth, medium-hard and thin. Keeps well. Flesh is deep yellow, 1½ inches thick, fine-grained, dry and sweet; edible to the shell. Pkt. 15c, oz. 35c, ¼ lb. \$1.00, prepaid.



601. BUTTERCUP—(100 days.) A recent introduction, outstanding in quality. The seeds are centered in the blossom end and the rest of the interior is thick, orange flesh, fine-textured, dry and sweet. Turban-shaped, the fruits weigh about 3½ lbs. The rind is thin and tough, dark green, with narrow gray stripes. An excellent winter keeper. Pkt. 10c, oz. 20c, ¼ lb. 70c, lb. \$2.25, prepaid.

602. NEW GREENGOLD—(100 days.) A selection from the Buttercup, superior to the Hubbard in edible quality, and of small size, 4 to 5 pounds. Color: orange-yellow background with green stripes. Very thin hard shell, deep orange flesh, dry, mealy, stringless and sweet with an exceptionally fine flavor. Small seed cavity. Greengold is a vigorous grower, with small stems and produces five to six fruits per plant. Pkt. 10c, oz. 20c, ¼ lb. 70c, lb. \$2.25, prepaid.



Greengold has deep orange flesh
dry, mealy and sweet.

Summer Squashes Grow in Bush form, and may be planted in the average-sized home garden.

The tender half-grown fruits of Summer Squash are delicious. Try dipping the slices in batter and frying them like Egg Plant. If fruits are kept picked before the shell begins to harden, the plants will bear until frost.

595. GIANT STRAIGHTNECK—(60 days.) The convenient straight shape of this squash makes it superior to its parent Crookneck. Plants bushy and prolific. Fruits golden yellow, heavily warted, 18 inches long; flesh thick and yellow of delicious flavor and fine quality. Pkt. 8c, oz. 15c, ¼ lb. 45c, lb. \$1.50, prepaid.

596. COCOZELLE BUSH—(65 days.) The fruits are most delicious when only 4 to 6 inches long. At this stage they may be sliced with the skins on, boiled from 20 to 30 minutes and served with butter, salt and pepper. If kept picked they will continue to bear until frost. Mature fruits are 20 inches long, smooth, dark green, marbled with yellow and light green. The flesh is pale green, thick, firm and tender. Pkt. 8c, oz. 15c, ¼ lb. 45c, lb. \$1.50, prepaid.

Ready in Early Fall

Excellent in quality, these produce a heavy crop on a comparatively small vine—8 to 10 feet long.

603. NEW BUTTERNUT—(85 days.) This golden-buff Squash gained instant popularity for its splendid qualities. Almost the entire fruit is clear, solid meat, as all the seed is contained in a small cavity at the blossom end. There is less waste and more meat on Butternut than on any other variety. Bottle-shaped, 10 to 12 inches long, the upper or neck section is 3½ inches in diameter. The skin is smooth and hard, and the flesh fine-textured, dry and sweet, of a deep yellow color. Makes delicious pies, and whether baked or boiled, the flavor is superb. Pkt. 10c, oz. 20c, ¼ lb. 70c, lb. \$2.25, prepaid.

604. GOLDEN TABLE QUEEN—(65 days.) Somewhat larger than the regular Table Queen, and of a beautiful deep golden color. Fruits are deeply ribbed, pointed at blossom end. The orange flesh is thick, dry and of fine texture. Edible from early fall throughout the winter. Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. \$1.75, prepaid.

605. TABLE QUEEN—(65 days.) Early maturing and fine for home or market garden use and for shipping. Fruit: 6 inches long, 4½ inches diameter; weight 1½ lbs., acorn shaped, ribbed, smooth, thin shelled, dark green. Flesh: light yellow, bakes well, with inviting flavor. Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. \$1.75, prepaid.

606. MAMMOTH TABLE QUEEN—(80 days.) Somewhat larger in size, this Squash has all of the virtues of the smaller varieties. The color is dark green, even after picking and storing. Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. \$1.75, prepaid.

USE PYROCID DUST
To Control Squash Bugs.
See Page 12 for Prices

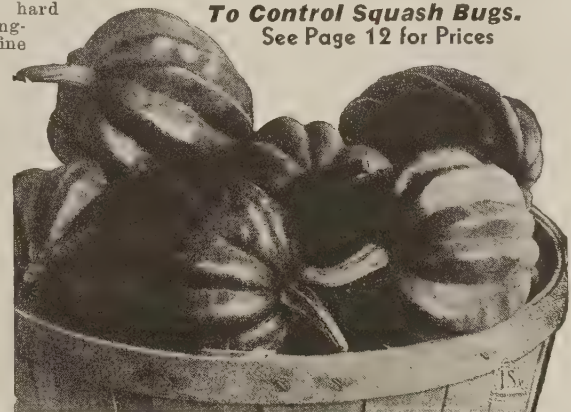


Table Queen yields enormously and the size is just right for baking and serving in halves.

When cooked, Rainbow Squash is fine-grained, mealy, sweet and richly flavored. Page 23

TOMATOES — Meaty and Full-Flavored

One Ounce Produces 2,000 Plants, 1/4 Pound to Transplant an Acre



Jubilee—A fine quality orange colored tomato

Disease-Resistant Strains For Main Crop

610. RUTGERS—(86 days.) Originated by the New Jersey Experiment Station, this tomato is disease resistant and a consistently heavy cropper. The fruit is uniform, globular, smooth, of medium size and very solid, with heavy cross walls and small seed cavities. It ripens evenly from the inside out, to a uniform bright scarlet, is mildly acid and of pleasing taste. Especially valuable for slicing and in the making of sparkling bright red juice. Pkt. 10c, 1/2 oz. 35c, oz. 60c, 1/4 lb. \$1.75, prepaid.

613. MARGLOBE—(77 days.) A splendid main crop variety, resistant to wilt and immune to rust. Fruits are large, smooth, globular, meaty, deep red of fine quality and delicious flavor. Ripen uniformly and are free from cracks. Widely used by truckers, shippers and canners, it is also a favorite for the home garden. Pkt. 10c, 1/2 oz. 25c, oz. 45c, 1/4 lb. \$1.50, prepaid.

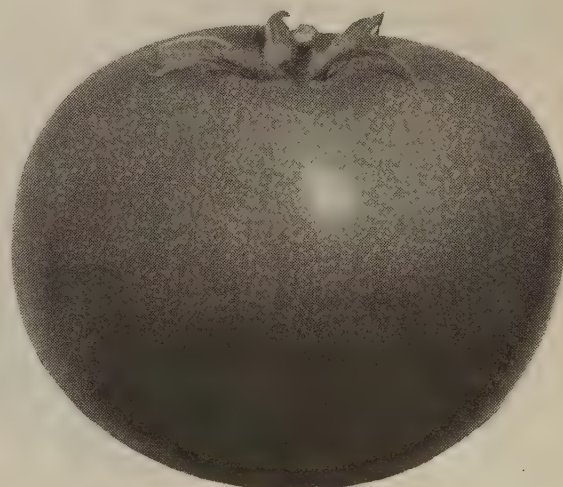
Jubilee Wins Blue Ribbons On the Show Tables
Deep Orange Inside and Out, with Solid Flesh and Few Seeds

621. JUBILEE—(72 days.) Different from any yellow or orange tomato you have ever grown. Fruits are bright orange-yellow, globular, weigh about 6 ounces, smooth, free from cracking and solid. The interior is modern, thick-walled, with few seeds. The flavor is mild but not flat. Makes delicious juice of unusual and attractive color. Plants hold their foliage well and bear over a long season; fruit develops evenly and uniformly. Pkt. 15c, 1/2 oz. 60c, oz. \$1.00, prepaid.

CULTURE—Sow the seed in March in a sunny window, in boxes or flats, using a light sandy soil. The seed germinates in 10 to 12 days. When plants are 2 or 3 inches high, transplant them 2 inches apart each way, into other flats using the same kind of soil. In 3 weeks, transplant to small paper pots or 4-inch flower pots, to produce good stocky plants. Pot-grown plants will not suffer a set-back when planted out in the garden, as the roots need not be disturbed.

For a startling increase in yield use "Boost'em" on Tomato Plants. See Page 27.

NOTE—The time from setting out plants to marketable condition is indicated here.



Rutgers—globular, bright red, smooth, with thick walls and small seed cells

Extra-Early Tomatoes

These Have Small Vines and Are Not Recommended for Staking

611. SCARLET EXTRA EARLY JUNE—(60 days.) This tomato ripens a whole week earlier than Earliana, and is very productive. Fruits are of large size for an early sort, deep glossy scarlet, and ripen uniformly, the stem end coloring up perfectly. Flavor is delicious, fruit is firm and meaty, with few seeds. Pkt. 15c, 1/2 oz. 50c, oz. 90c, prepaid.

614. FIRESTEEL—(62 days.) Resistant to Fusarium wilt and disease. The fruits are bright scarlet, globular, of medium size, smooth, solid and free from cracks. The flavor is semi-acid. For dry seasons Firesteel has no equal, as it will set fruit when other types are dropping their blossoms. Pkt. 15c, 1/2 oz. 40c, oz. 70c, prepaid.

612. SPARKS EARLIANA—(66 days.) Fruit: flattened, medium size, firm, bright red, quite smooth. Vine: open spreading, medium small. A first early sort, widely used for home gardens and truckers. Pkt. 10c, 1/2 oz. 35c, oz. 60c, prepaid.

619. NEW VICTOR—(66 days.) Produces large clusters of fine, deep scarlet tomatoes, uniform in size, even-ripening, exceptionally smooth and resistant to cracking and sunscald. The plants are vigorous and prolific; especially suited to growing conditions in the Northwest. Pkt. 15c, 1/2 oz. 40c, oz. 70c, prepaid.



New Faribo
HYBRID "E"
Tomato

An Early and Heavy
Producer until Frost

See Color Photo Front Cover.

618. FARIBO HYBRID "E"—(About 55 days.) Unlike other early varieties, this tomato has large vigorous vines and continues to bear profusely until frost. The fruits are medium in size and perfect in shape—very smooth and entirely free from cracks and blemishes. The color is bright red throughout; quality and flavor excellent. Pkt. (30 seeds) 25c, 3 pkts. for 65c, 1/2 oz. (about 800 seeds) \$5.00.

← Ponderosa - the Giant Tomato

639. PONDEROSA—The Giant Tomato—(88 days.) A splendid sort for home use and for canning, as the fruits are so solid, meaty and free from acid. Fruit: very large, flat, purplish pink, solid, with small seed cells; of inviting flavor. Pkt. 15c, 1/2 oz. 60c, oz. \$1.00, prepaid.

Novelty Tomato Collection

Grow these Tomatoes and delight your family with a salad composed of alternate slices of orange, frosty white, rich red.

One	Jubilee—Orange	35c
Pkt.	Snowball—White	
Each	Rutgers—Red	
		ppd.

Excellent Mid-Season Varieties

628. JOHN BAER—(70 days.) Here is an excellent early sort maturing between Earliana and Bonny Best. Excellent for local market gardening and canning. Fruit: medium sized, semi-globular, very attractive, bright scarlet red, smooth and firm. Vine: of medium height and open growth. Pkt. 10c, 1/2 oz. 35c, oz. 60c, prepaid.

635. BONNY BEST—(73 days.) The standard second early sort. Large, bright scarlet fruits, very smooth, perfectly round, solid and meaty. An excellent variety for market gardeners, shippers and canners, as it is a heavy yielder. Pkt. 10c, 1/2 oz. 35c, oz. 60c, prepaid.

For Tomato Plants, see Page 27.

Novelty Tomatoes for Variety

← Heart-Shaped Pink Tomato

616. OXHEART—(90 days.) Different in shape from any other tomato. The fruits are pink, almost seedless, solid and meaty, of large size and mild sub-acid flavor. Popular for salads and slicing. Pkt. 15c, ½ oz. 60c, prepaid.

Skyliner Climbs a Trellis →

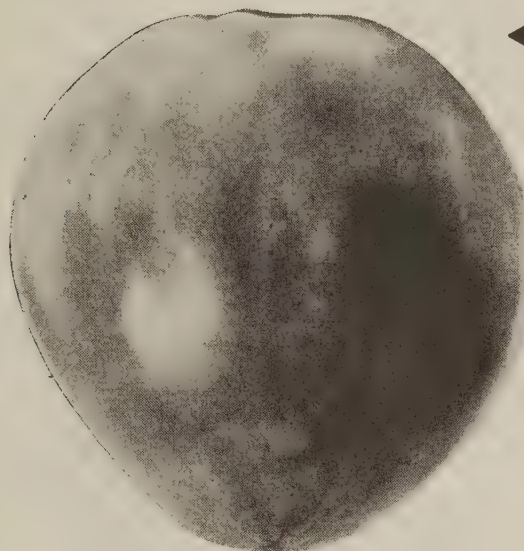
622. SKYLINER—Even the smallest garden can produce tomatoes in abundance by letting the vines climb a trellis. The quality of the fruit is excellent—solid, meaty and of fine flavor. The size averages 3½ inches across and 3 inches deep. Pkt. 15c, ½ oz. 45c, oz. 80c, prepaid.

Snowball is Acid-Free

637. SNOWBALL—A beautiful ivory-white tomato everyone can enjoy as it contains less acid than any other variety. The flesh is alabaster-white, firm and meaty with a mild, rich flavor. The fruits are similar to Golden Ponderosa in size and shape. Pkt. 15c, ½ oz. 45c, prepaid.

Midget Tomato "Tiny Tim"

640. TINY TIM—These novel, miniature, ¾-inch tomatoes are easy to grow in house or garden. They make fascinating colorful house plants as they grow only 12 to 15 inches high and are loaded with clusters of brilliant scarlet miniature tomatoes. Ideal for garnishing, salads, or for use in preserves. Pkt. 25c, 3 pkts. for 65c, prepaid.



Oxheart—pink with very few seeds, meaty and mild-flavored

For Sauce & Preserves

644. FARGO YELLOW PEAR—A delicious early tomato of novel appearance. An ideal sort for making fancy pickles, preserves, canning, etc. Fruit is pear shaped and of attractive golden color. Easily grown and yields wonderfully. Do not fail to try it. Pkt. 10c, ½ oz. 35c, oz. 60c, prepaid.

653. GROUND CHERRY OR HUSK TOMATO—(86 days.) This is not a true tomato. Used as a novelty and for preserves. Flavor is outstanding. Excellent in combination with oranges, lemons or ginger. Fruit: small, yellow, round, enclosed in a loose, papery husk. Of delicate flavor. Vine: spreading and flat. Pkt. 10c, ½ oz. 35c, oz. 60c, prepaid.

Use "Boost'em" Plant Starter for a 20% increase in tomato yields. See page 27.

Garden Huckleberries Make Delicious Pies, Preserves and Jams



655. The berries are borne in clusters and when ripe are a shining black color, about ½ to ¾ inch in diameter. Plants grow 3 feet tall and thrive on any soil. Culture same as for tomatoes. Pkt. 10c, ½ oz. 40c, oz. 65c, prepaid. See recipe below.

Recipe for Huckleberry Pie

Wash and stem 2½ quarts berries, cover with water and let come to a boil. Add ½ teaspoon soda, boil one minute and drain. Add one cup cold water to berries, cook until soft, then mash and add 1½ cups sugar, juice of ½ lemon and boil about 15 minutes. Remove from stove and cool. When ready to put in pie crust add one tablespoon tapioca. Dot with butter, add top crust and bake.

Tender Turnips for Your Table



American Purple Top Rutabaga is creamy yellow, solid and crisp. A heavy yielder and good keeper.

Rutabagas

698. IMPROVED AMERICAN PURPLE TOP RUTABAGA—(88 days.) Our special strain is noted for its uniformity of shape and heavy yield. A dependable variety. Keeps well and of excellent quality. Roots: 5 to 7 inch diameter, large, round with small neck and slight tap root; yellow with purple top. Flesh: light yellow, firm, sweet and tender. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00, prepaid.—Not prepaid, 5 lbs. at 75c per lb.

701. F. S. & N. CO'S EARLY NECKLESS RUTABAGA—A new variety and a great improvement over Purple Top Yellow Rutabaga. It is earlier—entirely neckless—free from side roots, round and uniform. The flesh is white, fine grained and sweet. Another money-maker for market gardeners and a quality vegetable that sells on sight. Pkt. 10c, oz. 15c, ¼ lb. 40c, lb. \$1.25, prepaid.—Not prepaid, 5 lbs. at \$1.00 per lb.

One ounce will sow 125 feet of drill—2 pounds per acre in drills; 3 pounds broadcast.

CULTURE—Turnips and Rutabagas do best in highly enriched, light loam soil. In rich soil and cool weather, they grow rapidly, without becoming bitter in flavor. Sow in April, in drills 12 to 15 inches apart, and thin out to stand 8 inches apart in the row. Rutabagas require a longer growing season than turnips and need more moisture. When full grown, they should be pulled, topped and stored in a cool cellar or pit. If cool and sufficiently moist to prevent withering, they will keep all winter.

681. EXTRA EARLY PURPLE TOP MILAN TURNIP—(40 days.) An extra early sort for home garden and truckers. Of excellent quality. Roots: 4 inch diameter, very flat, white with purple top. Flesh: clear white, fine grained, sweet and tender. Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. \$1.00, prepaid.—Not prepaid, 5 lbs. at 75c per lb.

685. PURPLE TOP WHITE GLOBE TURNIP—(58 days.) Our pure bred strain is noted for its uniformity and productivity. Roots: 4 to 6 inch diameter, large globe shaped, very smooth, upper part purple-red, white below. Flesh: white, sweet, crisp and tender. Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. \$1.00, prepaid.—Not prepaid, 5 lbs. at 75c per lb.

686. EARLY PURPLE TOP STRAP LEAVED TURNIP—(45 days.) A medium early productive variety, used extensively for home and market garden planting. Roots: 3 to 5 inch diameter, flat, purple red at the tops, white below. Flesh: white, fine grained and tender. Tops, medium, upright and compact. Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. \$1.00, prepaid.—Not prepaid, 5 lbs. at 75c per lb.

The Pocket BOOK of VEGETABLE GARDENING

By Charles H. Nissley

How, When and Where to Plant...

The latest practical advice on growing food for home use... easy to understand... complete. Includes specially prepared charts showing VITAMIN CONTENTS AND NUTRITIONAL VALUES as well as specific instructions for raising each vegetable. There are charts for 50 vegetables.

241 Pages 52 Illustrations 30¢ ppd.

Vegetables for the Epicure

Borecole or Kale

This member of the cabbage family does not form heads, but is grown for greens. Can be sown late, as plants continue to grow late in the season. A heavy frost improves the flavor and quality of the thick, crumpled leaves.

75. DWARF GREEN CURLED — Plant is low and compact with large, bright green leaves, curled, and wrinkled. A healthy vegetable, and one of the most palatable when well cooked. Pkt. 10c, oz. 35c, ¼ lb. \$1.25, prepaid.

76. TALL GREEN CURLED SCOTCH — Hardy plants with leaves deeply cut; curled at edges, light green in color. Very tender after exposure to frost. Pkt. 10c, oz. 35c, ¼ lb. \$1.25, prepaid.

Celeriac—See Page 9
Leek and Mustard—See Page 16
Vegetable Spaghetti—See Page 16

Cress Pepper Grass

295. FINE CURLED—Crisp, pungent leaves, finely cut and curled, dwarf and compact. Used mostly for garnishing and as a condiment. Pkt. 10c, oz. 25c, ¼ lb. 90c, prepaid.

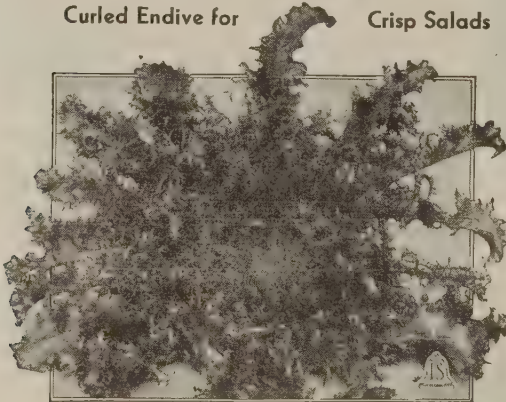
Egg Plant

One ounce will produce 1,000 plants.

Sow seed in hotbed in March, when an inch high, pot in 3-inch pots. Set out about June 1st, 2½ feet apart.

302. BLACK BEAUTY—Desirable for the northern states. Earlier than New York Spineless. The fruits are broad, thick, of most attractive form and finest flavor. Their rich, lustrous, purple color is very uniform. Pkt. 10c, ½ oz. 30c, oz. 55c, ¼ lb. \$2.00, prepaid.

Curled Endive for Crisp Salads



Endive

One ounce of seed will plant 100 feet of drill.

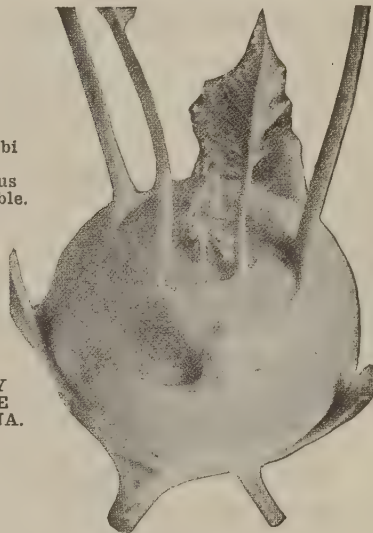
An excellent salad for fall and early winter use. Sow seeds outdoors the middle of April; small sowings can be made every three weeks. For fall and winter crop sow in July.

304. FLORIDA DEEP HEART—(88 days.) A great improvement over the Broad Leaved Batavian; the plant is large and vigorous, with broad, thick leaves; many infolding leaves form a deep compact heart, well-blanching and of excellent quality. Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. \$1.75, prepaid.

305. GREEN CURLED—A very beautiful sort of which the leaves are very light colored, even the outer ones being nearly white. They are crisp and tender. Pkt. 10c, oz. 15c, ¼ lb. 40c, lb. \$1.50, prepaid.

For Garden Huckleberry see page 25

Kohlrabi is a delicious vegetable.



This is EARLY WHITE VIENNA.

Kohlrabi

One ounce for 200 feet of row.

310. EARLY PURPLE—(62 days.) Dwarf plants having short, green leaves with purple stems and veins. Bulbs globular purple, with white, tender flesh. Pkt. 10c, ½ oz. 25c, oz. 45c, prepaid.

311. EARLY WHITE VIENNA—Very handsome, white fruit. Excellent both for forcing and open ground; flesh white and very tender; leaves short. Pkt. 10c, ½ oz. 25c, oz. 45c, prepaid.

Salsify Vegetable Oyster

One ounce for 100 feet of row.

Sow early and quite deep, giving same culture as for parsnips. The roots when cooked are appetizing and nutritious, with a mild, oyster-like flavor.

592. MAMMOTH SANDWICH ISLAND—An improved variety with roots 6 to 8 inches long, 1 to 1½ inches thick, tapering, smooth, dull white. Plants 3½ feet tall. Pkt. 10c, oz. 35c, ¼ lb. \$1.20, prepaid.

Herbs

To Flavor, Season and Garnish

To keep over winter, cut on a dry day, just before they are in full bloom. Dry in the shade and store in air-tight Mason jars.

663. DILL—Seeds have an aromatic odor and pungent taste. Used for pickles. Pkt. 5c, oz. 20c, ¼ lb. 60c, prepaid.

671. MARJORAM—The young, tender tops are used green for flavoring, or they may be dried for winter use, for flavoring broths, dressings, etc. Pkt. 10c, ½ oz. 60c, prepaid.

674. SAGE—The leaves and tops are used very extensively for seasoning. Pkt. 10c, ½ oz. 60c, oz. \$1.00, prepaid.

675. SUMMER SAVORY—A hardy annual. The dried stems, leaves and flowers are fine for flavoring soups, dressings, etc. Crop Failure.

676. THYME—The young leaves and tops are used for seasoning soups, in dressings, etc. Pkt. 10c, ½ oz. 60c, prepaid.

For Chives Plants see page 27

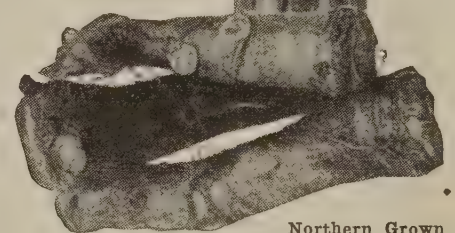
Rhubarb Roots

Set Plants 4 feet apart with Crowns 2 inches below the surface.

NEW CHIPMAN'S CANADA RED — One of the best of the new improved varieties. Very sweet, tender, of fine flavor, with extra-large stalks, bright red all the way through, the red color extending even to the mid-rib of the leaf. Does not lose its bright color in cooking, and both sauce and pies are an appetizing cherry-red color. Chipman's is vigorous in growth, of the hardy, everbearing type, and does not make seed. Supply of roots limited. Order early. Price: 65c each, 2 for \$1.25, prepaid to 3rd zone.

Illustrated in Color on Back Cover.

NEW MACDONALD RED — Produces thick succulent stalks, 18 to 24 inches long, with skin so thin and tender that peeling is unnecessary. Stalks are bright cherry-red from base to top; flesh white, fine-grained, low in acid, with a mild rich flavor. Sauces and pies made from MacDonald require less sugar and have an appetizing red color when cooked. A tremendous yielder, it remains tender and can be used over a long period of time. Price: 50c each, 2 for 90c, 6 for \$2.25, prepaid to 3rd zone.



Northern Grown Horse-Radish Roots.

Horse-Radish Roots

Minnesota grown native planting roots have clear white disease-free flesh. Grate up fine and tender and white as snow. It is just as important to change planting stocks in growing Horse-Radish as it is in growing potatoes to maintain best quality and yields. Price: 12 for 45c, 50 for \$1.25, 100 for \$2.25, prepaid.

Asparagus Roots

Rust-Resistant

Set Roots 15 inches apart. Plant 15 Roots for each member of the family. 6000 per acre.

New Early Paradise A sensationally new early maturing variety —produces normal crop one year earlier than other varieties and gives heavier production throughout its life. Large crisp, tender stalks —exceptionally fine mild flavor. Only 6 to 8 stalks required to the pound. A new, better, rust-resistant variety that will take the country by storm.

Paradise Roots: Heavy, one-year-old, 25 for \$1.25, 50 for \$2.00, 100 for \$3.50, prepaid to 3rd zone.—Not prepaid, 500 for \$13.50.

Washington Tips are firm and tight, and do not open out until quite tall. They are dark green and thick, of beautiful appearance when bunched.

Price: No 1 one-year-old roots, 25 for \$1.00, 50 for \$1.65, 100 for \$2.95, prepaid to 3rd zone.—Not prepaid, 500 for \$11.50.

Ask for free circular, "How to Grow Asparagus."

Our Vegetable Plant Department

On plant orders less than 60c, add 15c for packing

Transplanted Vegetable Plants

We supply good healthy transplanted plants of all the varieties listed below, in their proper season. As soon as the transplants are taken from the flats in the greenhouse they are wrapped in moist moss and covered with oil paper, and mailed at once. Ask for prices in larger quantities.

We cannot accept shipments beyond the fourth zone (600 miles).

On Plant Orders Less Than 60c, Add 15c for Packing.
50 or more plants at the 100 rate. Ppd. to 4th Zone.

We cannot accept orders for less than one dozen of a variety.

CABBAGE, Early. Ready in April and May. Marion Market (yellows resistant) midseason, Copenhagen Market, Golden Acre, earliest, round head	45c	per Dozen
CABBAGE, Late. Ready in June. Hollander or Danish Ballhead (yellows resistant)		
CELERY, Early. Ready in June. Golden Self Blanching, Giant Pascal (green)	\$2.25	per 100 postpaid
CHIVES. Ready in April. Per bunch, about 1 doz. plants		To 4th zone
SWEET POTATO PLANTS. Porto-Rico. Ready in May and June. Special price, \$1.95 per 100		
TOMATOES. Ready in May and June. Firesteel, Scarlet Topper, Earliana, Ponderosa, Rutgers, John Baer, Oxheart, Golden Jubilee	50c	per Dozen
	\$2.95	per 100 ppd.
CAULIFLOWER, Ready in April and May. Super Snowball	50c	per Dozen
EGG PLANT. Ready in May and June. Black Beauty		
GROUND CHERRY. Ready in May and June	\$2.95	per 100 postpaid
PEPPER. Ready in May and June. Minnesota Wonder, Harris Early		To 4th zone
SAGE. Broadleaf		

FOR ONION PLANTS. See page 16.

PANSY PLANTS	MIXED COLORS ONLY	85c	Dozen ppd.
	This mixture includes dark and light shades, with huge flowers on long, strong stems.	100 for Not postpaid	\$3.00

"BOOST 'EM" Plant Starter and Fertilizer



5 Important Advantages of Boost 'Em Starter Solution.

1. Reduces transplanting shock, plants resume vigorous growth earlier.
2. Earlier harvest, greater yield and better quality.
3. Longer bearing period.
4. Instantly soluble—easy to apply.
5. Famous "10-52-17" formula recommended by U. of Minn. Horticulturists, N. Y. State Veg. Growers Assn., and leading State Colleges.

For CABBAGE, TOMATO, MELONS, PEPPERS, EGG PLANT, etc., dissolve ½ lb. BOOST 'EM in 5 to 8 gals. water, apply ½ cup solution per plant when transplanting. Results are remarkable. Apply solution direct to garden seed when planted—again at blossom or fruiting stage.

"BOOST 'EM" is All-soluble and quickly available

IT'S THE IDEAL TRANSPLANT SOLUTION!

Here's the very latest formula. Recommended by leading horticulturists, state colleges, and New York State Vegetable Growers Association. It increased tomato yields 4 tons per acre—boosted potato yields 100 bushels per acre.

WONDERFUL RESULTS ON POTATO EYES

Trial Size, 3 oz. can (makes 3 gals. solution) ppd.	25c
1½ pound can (makes 20 to 25 gals. solution) ppd.	\$ 1.00
10 pound can, Postpaid	\$ 4.00
25 pound bag, By Freight or Exp. Not ppd.	\$ 7.00
50 pound bag, By Freight or Exp. Not ppd.	\$11.00

New Fariba HYBRID TOMATO PLANTS

First Time Offered

Sensational Extra-Early Hybrid Tomato. Plants grow 6 ft. across, yielding up to 2 bu. each. Highly resistant to blight and disease. Bright red fruits, smooth, globular and free from cracks and blemishes—of superb quality and flavor.

6 Plants for \$1.50, 12 for \$2.50,
100 for \$15.00, prepaid.

Plant Supply Limited.

Frost-Proof Cabbage Plants

No Delivery Beyond 4th Zone (600 Miles).

Not available after May 1.

These plants are extremely hardy, and produce the earliest cabbage, fully three or four weeks ahead of any other plants. They are grown in Texas, during the winter, when the weather is often freezing, enduring cold rains and sleet. They can be set out as soon as the ground can be worked and are not injured by shipping or transplanting.

We offer the three best sorts in bundles of about 45 to 50 of a kind only, which cannot be divided. Prices include postage.

EARLY	No. of Plants	Price Ppd.
JERSEY WAKEFIELD.	2 Bundles (90-100)	\$0.75
FLAT DUTCH.	4 Bundles (about 200)	\$1.25
COPENHAGEN MARKET.	10 Bundles (about 500)	\$2.25
	20 Bundles (about 1000)	\$3.50

We reserve right to substitute.

On plant orders less than 60c, add 15c for packing

TRANSPLANTONE - Starts plants quickly - gives increased yields.

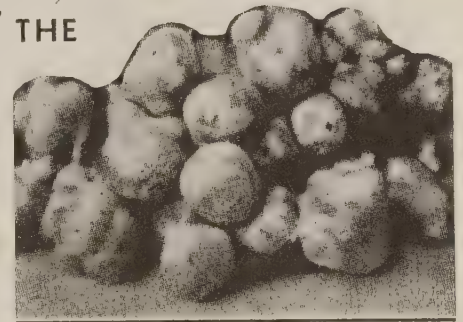
Amazing new HORMONE-Vitamin stimulant "does things" to more plants than B1 alone! Mix with water—apply to soil. Unbelievable results discovered in transplanting VEGETABLES—tomatoes start quickly—no wilting or setback. 50% more yield reported. 1 oz. Transplantone makes 10 gallons of transplant solution or 1,000 gallons watering solution. Free folder on request. ½ oz. pkt., postpaid, 25c. 3-oz. can, \$1.00, ppd.

New Improved AMERICAN ARTICHOKE

"GIRASOL" THE DIABETIC'S POTATO

Plant Early. Available about March 1st, newest strain.

A Valuable Food for Diabetics and Those Not Permitted To Eat Starchy Foods.



Bushel (50 lbs.)—6 bushels will plant an acre.

The tubers can be eaten cooked, or served raw in salads. They contain carbohydrates in the form of inulin, instead of starch, and need not be cooked to bring out their food value.

A COMBINATION OF THREE FLAVORS—COCOANUT—CELERY AND BRAZIL NUT—EASY TO GROW
WORLD'S MOST VALUABLE NON-STARCH VEGETABLE

Plant 3 feet apart in rows 3 feet apart. Cut tubers like potatoes. Girasol will thrive in any soil and responds to liberal feeding, yielding bountifully. The foliage becomes so dense, that after two cultivations, weeds cannot survive. Girasol tubers are relished by livestock and poultry.

RECIPE FOLDER FREE ON REQUEST

The average yield is 10 to 15 tons of tubers per acre, with an equal amount of silage from the tops. Tubers can be left in the ground until the following spring, as they are not injured by freezing.

PRICE: 5 lbs. \$1.25, peck (11-12 lbs.) \$2.00, prepaid to third zone only. Not prepaid: Bushel (45-50 lbs.) \$7.00, 100 lbs. at 13c per lb.

Minimum Plant Orders from This Page 60c, on Smaller Orders Add 15c for Packing

Page 27

Certified

SEED POTATOES

Minnesota Grown

LATE MAIN-CROP POTATOES

Bug & Blight-Resistant SEQUOIA

Resistant to Late Blight, Mild Mosaic and Immune from Wart. Valuable also for its Resistance to Leaf-hopper and Flea-beetle Injury. Requires Less Fertilizer than Most Varieties for the Production of High Yields.

Developed from a cross of Green Mountain and Katahdin by the U. S. Department of Agriculture. Produces large, roundish, flattened smooth white tubers with shallow eyes and white flesh, of finest cooking quality. For best results Sequoia should be more closely spaced in planting than other varieties. See Blue Figure Price List.

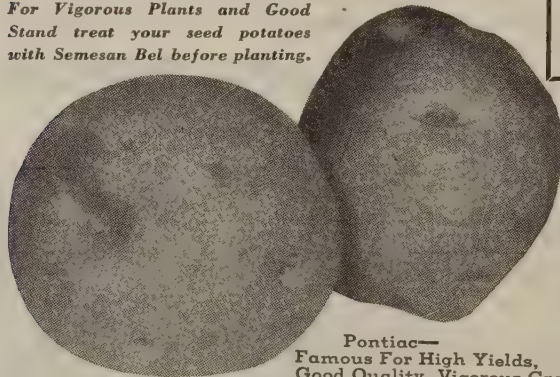
See Color Photo Sequoia Potato Eyes on Back Cover.

PONTIAC

Developed by the U. S. Department of Agriculture from a Cross of Triumph and Katahdin, and first grown by the Michigan Experiment Station. Valuable in sections where a late red variety is in demand.

Pontiac is oblong to round in shape, of large size with medium deep eyes; the skin is red, smooth and sometimes netted. The flesh is crisp and white. A vigorous upright grower, producing heavy yields, and especially adapted to growing in muck soils. See Blue Figure Price List.

For Vigorous Plants and Good Stand treat your seed potatoes with Semesan Bel before planting.



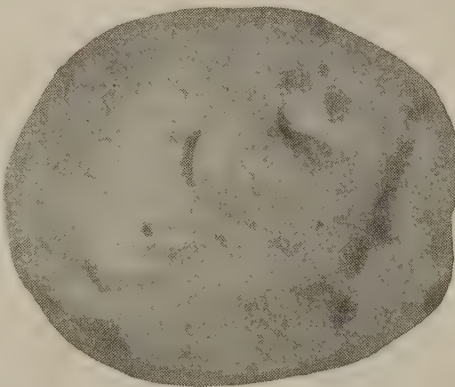
Pontiac—
Famous For High Yields,
Good Quality, Vigorous Growth

SEBAGO Shows Definite Resistance To Blight & Yellow Dwarf Disease

Late Blight and Yellow Dwarf disease have caused heavy losses in the Potato growing sections in recent years. Tests show that Sebago is definitely resistant to both and that tubers seldom show hollow heart, internal coloration and hardening.

A cross of Chippewa and Katahdin, developed by the U. S. Department of Agriculture. Sebago is a heavy yielder of fine quality tubers if grown on fertile soil. Does not yield well on poor sandy soil. Tubers are large, oval to oblong in shape, ivory-white, thin-skinned with shallow eyes and white flesh. The vines are large and vigorous of upright habit. See Blue Figure Price List.

Have You Read About "BAR-SPROUT"—it improves quality, prevents sprouting in storage. Page 71.



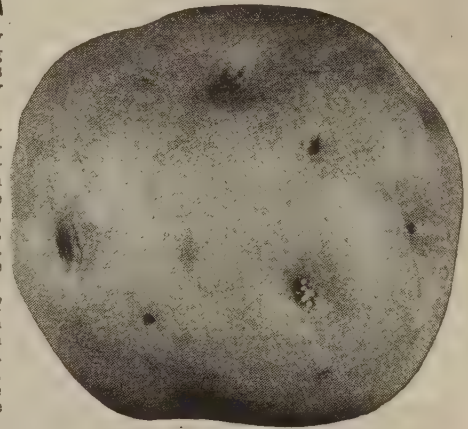
Farmers can be sure of getting a better potato crop, by using Certified Seed, instead of local stocks, that may have run out, according to R. C. Rose, Plant Pathologist at University Farm. Virus diseases, such as spindle tuber, mosaic, yellow dwarf, and leaf roll are often present in table stock or garden crops. Seed used from a bin of these potatoes may carry enough infection to reduce the vigor of the crop the second year. This is what is known as "running out."

Extra Early WARBA

Disease-Resistant, Heavy Yielding, Excellent Cooking Quality. Keeps and Stores Better than any other Early Variety.

White Warba was developed by the Minnesota Agricultural Experiment Station—a cross of Triumph and a selected seedling. The tubers are uniform in size, short, round and blocky, with rather deep red eyes. The skin is creamy white and the flesh white.

Red Warba, a sport of White Warba, is like it in every respect except skin color, which is red. Flesh cooks white and mealy, with an exceptionally fine flavor. See Blue Figure Price List.



EARLY OHIO A Money Maker For Early Market

Adapted to Every Locality, Heavy Yielding, Always Dependable. Extra Fine Cooking Qualities.

Tubers run uniform, medium to large in size, oval in shape with blunt rounded ends and shallow eyes. Skin is light reddish pink, smooth, and the flesh is white, firm, fine-grained and unexcelled in quality. See Blue Figure Price List.

IRISH-COBBLER Popular Early White of Excellent Quality

Does Well on a Wide Range of Soils. Resistant to Mosaic and Immune from Wart. Cooks Dry and Mealy.

Attractive creamy white tubers, medium to large in size, smooth, nearly round in shape, with blunt ends; eyes are strong, well-developed and slightly indented. Flesh white, of fine quality. Cobblers are famous for their heavy yield, excellent cooking and keeping qualities. See Blue Figure Price List.

BEST MIDSEASON POTATO

U. S. D. A. CHIPPEWA Husky, Disease-Resistant. Yields Enormous Crops

Introduced by the U. S. Department of Agriculture. Especially Adapted to Growing in the Northwest. Has Yielded 464 Bu. per Acre at Grand Rapids Test Plot.

A handsome potato, oblong in shape, with smooth creamy-buff skin and shallow eyes. Large to medium in size, with sparkling white flesh that cooks up dry and mealy and is unexcelled for baking. Highly resistant to mild mosaic and entirely free from net necrosis. See Blue Figure Price List.

SEMESAN BEL

QUICK EASY TREATMENT FOR POTATOES

A Semesan Bel dip before planting will protect them from scab and other diseases, insure a good stand of healthy plants and give a much higher yield. Price: 2-oz. pkg. (treats 6 to 8 bu.) 30c, 1 lb. can (treats 60 to 80 bu.) \$1.75, postpaid.

Certified SEED POTATO EYES

Freshly Cut at Shipping Time—
Guaranteed to Reach You in Good Condition.

For those of our customers who do not care to pay transportation on tubers to distant points, we offer Potato Eyes, while stocks are available. Not less than 100 eyes of a variety can be offered, and this will plant 100 hills. See Back Cover.

In Ordering, Name Your Preference, though We Reserve the Right to Substitute. Prices are postpaid.

PRICE OF POTATO EYES

Certified	100 for \$1.75
Sequoia	200 for \$3.35
	500 for \$7.75
All Other Varieties:	100 for \$1.25
	200 for \$2.35
	500 for \$5.75

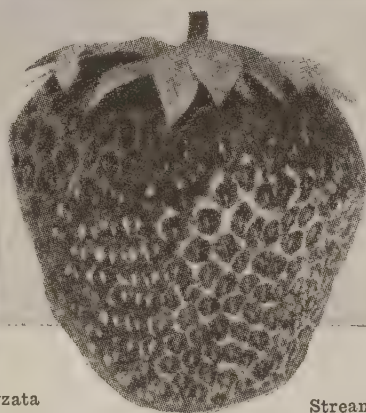
All Postpaid



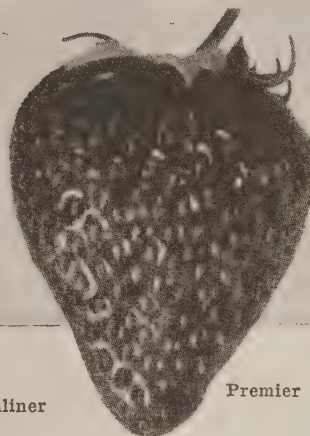
Northern Grown STRAWBERRY PLANTS



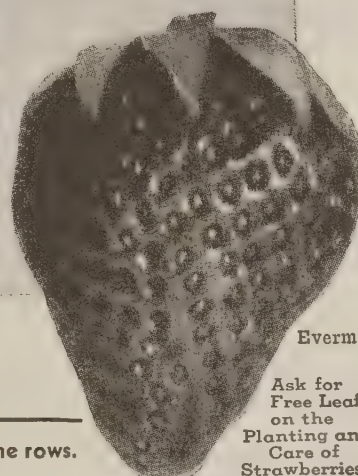
Wayzata



Streamliner



Premier



Evermore

Pick Big, Luscious Berries from Your Own Garden

Ask for Free Leaflet on the Planting and Care of Strawberries.

8000 plants for an acre. Set in rows 4 ft. apart—plants 1½ ft. apart in the rows.

Everbearing

New STREAMLINER

An Everbearer That Has Everything

Starts bearing 60 days after setting out plants and continues bearing until heavy frosts. Big, luscious berries of fine flavor and good color—perfect for serving fresh, in shortcake, or for quick freezing. Plants are self-pollinating and heavy yielding—a quart of berries has been picked from a single plant.

Price: 25 plants for \$2.95, 50 for \$4.95, 100 for \$7.95, 250 for \$15.95, 500 for \$25.00, 1,000 for \$40.00 prepaid to fourth zone (600 miles). See Back Cover for Color Photo of Streamliner

EVERMORE Minnesota 1166

Keeps Well After Picking

An Everbearer developed by the Minnesota Experiment Station. Produces large, long-pointed berries—solid red clear through—with a flavor second to none. A splendid shipper and a great commercial variety. Evermore has been known to keep 5 days without refrigeration, and not to mold or spoil in the hottest weather. For best results in fruit production, we recommend that the runners be pinched off as fast as they appear in summer.

Price: 25 plants for \$1.85, 50 for \$2.75, 100 for \$4.80, 250 for \$9.50, 500 for \$17.00, 1,000 for \$31.00, prepaid to fourth zone (600 miles).

SCARLET GEM

Bears 3 Crops In 18 Months!

This giant Everbearer has large smooth berries of a bright red color that ripen up evenly all around. Plants set out in spring begin bearing in summer, and the berries get larger towards fall. A quart of big, beautiful Gems brings a good price all summer long, and sells for 50c around Thanksgiving. Gems prefer a clay or a heavy sandy loam soil, and produce best when runners are pinched off as fast as they appear in summer.

Price: 25 plants for \$1.65, 50 for \$2.70, 100 for \$4.25, 250 for \$7.25, 500 for \$13.50, 1,000 for \$25.00, prepaid to fourth zone (600 miles).

AMERICAN BERRY BASKETS

Materials are still scarce, but we have been assured American Berry Baskets and offer them subject to delivery and further price changes.

Prices for American Berry Basket:

Quart Baskets: 100 for \$2.25, prepaid to 3rd zone. Not prepaid, 250 for \$4.25, 500 for \$7.75, 1,000 for \$14.25.

Pint Baskets: 100 for \$1.75, prepaid to 3rd zone. Not prepaid, 250 for \$3.75, 500 for \$6.65, 1,000 for \$12.25.

Weight: 500 qt. size, 63 lbs.; 500 pt. size, 35 lbs.

Crates Not Available.

New Storage Methods keep Strawberry Plants Dormant to Preserve their Vigor. Though not as Fresh in Appearance as Newly-Dug Plants, they Respond More Quickly and Without Shock.

WAYZATA

The Favorite Everbearer

Honey-sweet, red to the heart, with small hulls and no green tips, Wayzata challenges the world in flavor, size and productiveness. Newly set plants start to bear in 60 days and continue for nearly six months without let-up, if they are cultivated once each week and all weeds kept out. Plants are hardy and tough, adapting themselves to most any type of soil. Their dark green leathery leaves are rarely attacked by common strawberry plant diseases.

We cannot accept orders for less than 100 Field-grown Wayzatas. For smaller plantings, we recommend Potted Wayzatas described in center of page.

Price: 100 Field-grown plants for \$8.15, 250 for \$19.50, 500 for \$35.85, 1,000 for \$66.50, prepaid to fourth zone (600 miles).



Potted

WAYZATA PLANTS

Grown in pots and especially packed with roots undisturbed. (Illustrated above.)

We cannot accept orders for less than 25 plants per customer. Supply limited. Price: 25 for \$3.75, 50 for \$7.00 prepaid to fourth zone—600 miles. Not prepaid, 100 for \$12.00, 200 for \$22.00.

Big Profits From Wayzata Crops

F. S. & N. Co., Nov. 15, 1946
We sold \$1,898.64 worth of fruit from 1½ acres Wayzata Strawberry plants, from August 1st to October 29, 1946. In the last picking, October 29th, we picked 50 pints. This in addition to a fairly good crop in June, of which we kept no record.

Harry Ruble, Hillcrest Gardens, Minn.

June Bearing

New Giant ROBINSON

Early Spring-Bearing

Ripens soon after Premier and continues bearing right through the late strawberry season, every berry a large one, right up to the last picking. Big round, blunt-pointed berries borne on large, thick fruit stems, well protected with heavy foliage. Solid red all the way through, with a tangy rich sweet flavor found in no other strawberry. Heavy, healthy plants make a fine wide fruiting and picking row. A wonderful shipping and canning berry and a real money maker.

Price: 25 plants for \$1.30, 50 for \$2.00, 100 for \$3.25, 250 for \$6.50, 500 for \$11.00, 1,000 for \$19.00, prepaid to fourth zone.

PREMIER Extra Early Long Fruiting Season

The First Berries On The Market

Premier bears heavily before other varieties begin and brings top prices when berries are in good demand. Of finest quality, color and flavor. Premier is supreme for eating fresh, canning, preserving, distant and local markets. Plants are long-rooted, drought-resisting and immensely productive, with tall healthy foliage covering blossoms and berries.

Price: 25 plants for \$1.15, 50 for \$1.90, 100 for \$2.90, 250 for \$5.75, 500 for \$10.00, 1,000 for \$16.50, prepaid to fourth zone (600 miles).

FAIRFAX Midseason Frost-Resistant

Darkest Red of All Strawberries

Extra good for canning and jam making because of its beautiful dark red color. The berries are large, round and very firm with a quality comparable only to Wayzata. A heavy bearer and good shipper.

Price: 25 plants for \$1.15, 50 for \$1.85, 100 for \$2.85, 250 for \$5.50, 500 for \$9.00, 1,000 for \$16.00, prepaid to fourth zone (600 miles).

SENATOR DUNLAP Mid-Season

Always Dependable—Succeeds Everywhere

Beautiful, glossy, dark red color all through, the flavor is delicious, mild and sweet. Wonderful for canning and preserves. The berries are medium to large in size, and medium firm—excellent for home use and local markets. Plants are healthy, fast growers and make runners freely. A dependable midseason sort.

Price: 25 plants for 80c, 50 for \$1.25, 100 for \$2.00, 250 for \$4.00, 500 for \$7.00, 1,000 for \$12.50, prepaid to fourth zone (600 miles).

RED ALPINE STRAWBERRIES

Grown From Seed

This wonderful novelty produces fruit the size and color of large wild strawberries—distinctive in flavor, with a pleasing aroma. Makes no runners and can be grown in pots. Pkt. 25c, 2 for 45c, ppd.

Use Boost-Em on Strawberry Plants—the results are Amazing. (Prices on page 27.)

HARDY ★ ★ ★

Northern Rooted

NURSERY STOCK

Common rooted fruit trees may look the same as Northern rooted trees—may even start all right. But when the first hard winter comes along, with little or no snow for protection, common rooted trees are quite sure to be injured or even killed, leaving a dead or crippled orchard.

An apple tree is no hardier than the root it is grafted on. Hardy root stocks are as vital to your orchard, as a good foundation is to your home.

Actual tests show that common, tender root stocks are the greatest cause of failure in the orchard. Commercial growers know how important root stocks are to the life of their trees.

In tests, 50 common rooted, and 50 Northern rooted trees of same size were planted under identical conditions. Note the difference at 17 years. Many common rooted trees are gone entirely—those remaining are one-third the size of the Northern rooted trees, and produced one-fifth as much fruit. So beware of common rooted, Southern grown stocks. See the difference in the photo shown here.

Save money and insure your supply of fresh fruit by growing your own! The price of a peck of fruit at the grocers, will buy a fruit tree, which provides bushels of fruit year after year. Due to labor and weather conditions, Northern grown fruiting stocks are scarce. Order Early!



**PLANT NORTHERN ROOTED
FRUIT TREES**

See the Difference in Results — between
Common Rooted & Northern Rooted Stocks:

EARN FREE GIFTS

With Your **EARLY** Nursery Order
Look for the 3 Stars: ★ ★ ★

Order Nursery Stock from any 3 star page (any page marked with 3 stars at the top: ★ ★ ★). Send us this order with full remittance **BY MARCH 15, 1947**, and you may choose from the **FREE** Gift list below as follows:

With such orders of \$5.00 to \$7.50 select 1 gift below.
With such orders of \$7.50 to \$10.00 select 2 gifts below.
With such orders of \$10.00 and up select 3 gifts below.

(FREE GIFTS)

- | | |
|--|------------------------------------|
| (A) 1 Korean Cherry Seedling 12-18 in. | (F) 2 Bittersweet Vines 12 in. |
| (B) 1 Golden Elder 12-18 in. | (G) 1 Russian Olive 12-18 in. |
| (C) 1 Siberian Almond 12-18 in. | (H) 1 Norway Poplar 2-4 ft. |
| (D) 1 Honeysuckle Red Bush 12-18 in. | (I) 1 Lombardy Poplar 2-4 ft. |
| (E) 1 Mock Orange 12-18 in. | (J) 1 Hansen Bush Cherry 12-18 in. |

Gifts must be **REQUESTED** on orders and are given only on 3 star **NURSERY ORDERS** sent us by Mar. 15. We reserve the right to substitute if some items are out.

Left — 17-year-old McIntosh which was grafted on "common" root stocks. The common root stock could not endure Minnesota conditions—it died completely, leaving the tree to exist on the few "scion roots" which had come out above the graft. Result: weak, unsatisfactory growth—little or no fruit.

Right — 17-year-old McIntosh which was grafted on our "Special Northern" stocks. The success of this tree is due to the hardy, sturdy root which anchors the tree securely and makes possible vigorous growth of tree and heavy crops of fruit.

\$1.00 Nursery Bargains

- | | |
|--|-------------|
| 2 Hardy Summer Apples (our selection), 2-3 ft. | \$1.00 ppd. |
| 2 Hardy Fall Apples (our selection), 2-3 ft. | \$1.00 ppd. |
| 2 Hardy Winter Apples (our selection), 2-3 ft. | \$1.00 ppd. |
| 2 Hardy Cherry-Plum Hybrids, 2-3 ft. | \$1.00 ppd. |
| (with 1 Hansen Pollinizer Cherry Free.) | |
| 2 May Day Trees, 2-3 ft. | \$1.00 ppd. |
| 2 Hardy Siberian Flowering Almonds, 18-24 in. | \$1.00 ppd. |
| 2 Red Tartarian Honeysuckles, 18-24 in. | \$1.00 ppd. |
| 4 Green Ash, 3-4 ft. | \$1.00 ppd. |
| 3 Norway Poplars, 3-4 ft. | \$1.00 ppd. |
| 3 Hardy Field Grown Mums (our choice), 1 yr. | \$1.00 ppd. |

About Shipping

SMALL ORDERS—On nursery orders under \$1.00, it is necessary to include 15c extra packing charge due to high cost of properly packing live plants. No packing charge on orders of \$1.00 or more.

SHIPPING CHARGES—Nursery orders in which all items are quoted prepaid, (such as berries, grapes and roses) will be sent prepaid to the 4th zone or 600 miles only. Beyond that, extra postage will be requested.

NOT PREPAID ITEMS are too large to mail, and will be shipped express or freight. Customer to pay express or freight charges when he receives shipment.

ORDERS CONTAINING BOTH Prepaid and Not Prepaid Nursery items will be sent in one shipment by express, not prepaid. With these shipments we will include extra stock representing a greater value than the postage on any prepaid items included in shipment, would amount to.

NO NURSERY SHIPMENTS INTO THESE STATES—because of great distances and high permit fees: Florida, New Mexico, Nevada, West Virginia and Canada.

SHIPPING TIME—We start shipping about March 15, depending on weather, and continue through April and May. We try to have shipment arrive at best planting time in your section.

About Landscape Plans

If you are anxious to secure an accurate, properly balanced landscape plan that is tailor made to fit your home grounds complete with specifications, laid out in an easy to read manner, send for our Sketch Sheet.

On this sheet are full instructions to help you in making up the rough sketch for your home and grounds.

SEND US A SKETCH AND MEASUREMENTS OF YOUR GROUNDS.

Upon receipt of your rough sketch and \$5.00, our landscape department will prepare a complete plan, together with a planting list, of hardy evergreens, trees, and shrubs best suited to your soil and conditions. This fee applies to average city lots. Larger area plans, priced in proportion.

MONEY SENT FOR PLAN WILL BE APPLIED ON ORDER.

If your nursery order totals \$40.00 or more, the \$5.00 will be

credited to the order, thus making this Landscape Service absolutely free.

If you desire a foundation planting only, the landscape fee is \$2.50 and will be credited on your nursery order of \$25.00 or more. No plans can be prepared after March 15.

OUR FAIR PLAY GUARANTEE

All of our Nursery Stock carries the Minnesota Inspection Certificate and is guaranteed true to name and in good growing condition. If for any reason you do not find everything just as represented, notify us at once and we will order shipment returned, refund your money, or replace the items without charge.

Any tree or plant that dies the first growing season we will replace at half the catalog price, the following spring, if loss is reported by October 15th following date of purchase.

We cannot be responsible for losses other than the above.

Certified RASPBERRY PLANTS ★ ★ ★

BIG RED LATHAM

One Inch in Diameter!—

The nationally known King of Red Raspberries. Originated in Minnesota, and grown everywhere. A perfectly hardy, strong, vigorous grower, outyielding all others. Most profitable for market. Quantity prices below.

RED CHIEF—Ten Days Earlier

Popular early variety—most profitable for early marketing. For continuous fruit production we recommend Chief and Latham. Excellent quality and good yielder. Quantity prices below.

INDIAN SUMMER

Everbearing Red Raspberry

A new Two-crop Red Raspberry developed by the New York Experiment Station. Bears in summer and again in fall, continuing until frost. The berries are large, somewhat conical, of medium red color and high quality. Plants are hardy and vigorous growers. A real chance to profit from fall marketing. Quantity prices at right. See color photo inside front cover.

NEW U. S. SUNRISE

Extra Early—Fine Quality

A brand new red raspberry just released by U. S. Dept. of Agriculture. Be the first to grow this super quality fruit! It's extra early—(2 weeks ahead of Latham), yet berries are large and have better texture, finer quality and more flavor than Latham. Very hardy and disease resistant. Supply limited. Prices at right. Color photo front cover.

Minnesota Grown and State Inspected Plants



FREE 5 Page Leaflet on Planting and Care of Red Raspberries.

NEW SODUS

Purple Cap Raspberry

A new Raspberry especially noted for fruit production. Berries are large, firm, fine quality and have a wine-red, purple color. You will prize this variety highly. Prices below.

CUMBERLAND

Black Cap Raspberry—

Most profitable Black Cap berry to grow—produces big crops year after year—succeeds on all kinds of soil. Berries extra large, glossy-black. Prices below.

PRICES

	Size	Prepaid to 4th Zone—(600 miles)				
		6	12	25	50	100
Red Chief	{ 1 yr. Standard.....	.90	\$1.55	\$2.75	\$5.10	\$ 9.00
	{ 2 yr. Heavy.....	1.10	1.95	3.60	6.55	11.75
Latnam or	{ 1 yr. Standard.....	1.00	1.75	3.15	5.85	10.45
New U. S. Sunrise	{ 2 yr. Heavy.....	1.25	2.15	3.95	7.25	12.95
Indian Summer	{ 1 yr. Standard.....	1.30	2.35	4.30	8.00	14.35
	{ 2 yr. Heavy.....	1.40	2.50	4.80	8.95	16.00
Sodus Purple or	{ 2 yr. Heavy.....	1.85	3.45	6.45	12.15	21.65
Cumberland Black						
Alfred Blackberry	1 yr.....	.90	1.55	2.75	5.10	9.00
Boysenberry	1 yr.....	1.35	2.40	4.35	8.00	14.35

ON RASPBERRY PLANTS

	Express not ppd.		
	200	500	1000
Red Chief	\$15.75	\$30.00	\$52.50
	20.25	38.75	67.50
Latnam or	18.00	34.50	60.00
New U. S. Sunrise	22.50	43.00	75.00
Indian Summer	24.75	47.50	82.50
	29.25	56.00	97.50

GRAPES

FREDONIA Early Black Grape

The earliest large-berried Grape for the North—three weeks earlier than Concord. Vines are vigorous—clusters of medium size, very compact. Offers great opportunities for market or home use. Prices below.

BETA GRAPE Hardy as Wild Grapes

Always dependable, producing heavy crops every year. Fruit of medium size, good quality, early—excellent for jelly and grape juice. Prices below.

Hardy New Minn. Grapes

NEW MOONBEAM GRAPE

A remarkable triumph of Minnesota's State Fruit Breeding Farm! A full sized, unusually sweet flavored, green grape that withstands Minnesota conditions without winter cover. Splendid dessert quality. Its attractive foliage makes it the ideal arbor plant. Ripens only slightly later than Beta. See color photo page 40. Prices below.

NEW RED AMBER GRAPE

Another achievement of Minnesota's State Fruit Farm. A big, luscious red grape of sweet, spicy flavor, and dessert quality that compares with the best New York grapes. And best of all—it stands Minnesota's severe climate with no winter cover! Be among the first to grow them. Prices below.

NEW BLUE JAY GRAPE

Here's the third member of Minnesota's famous trio of new grapes! A hardy blue grape, as large as Concord, with superb dessert quality when fully ripe. Makes delicious juice and jelly. Best of all, Blue Jay requires no winter cover! This particular variety should be planted near some other variety to insure pollination. Prices at right.

BERRIES

BLACKBERRY ALFRED

A crop the second season. Berries are twice as large as ordinary blackberries—often 1½ inches long. The ideal table berry—of fine flavor and practically coreless, with but few small seeds. Stands 35 below zero.

(See Prices under Raspberries, above.)

MAMMOTH BOYSENBERRY

The largest bramble berry. Berries are 1½ to 2 inches long, and of purple color. Flavor is superb and rich. A pleasing blend of Raspberry and Dewberry—fine for eating fresh or canned. A real money maker for market. Requires some winter protection. Color photo, page 41.

(See Prices under Raspberries, above.)

JUNE BERRY

Resembles the delicious Blueberry. Looks like it, tastes like it, makes luscious pies and sauce like it. But it's easy to grow and quick to bear. No special care—thrives in any soil—very hardy. It's an ornamental shrub with edible fruit. Price: Listed under Flowering Shrubs, Page 40.

CRANBERRY Highbush

Beautiful flowering shrubs, later loaded with huge clusters of bright red berries that hang on way into winter. Berries make jelly that looks and tastes exactly like grocery cranberries. Price: Listed under Flowering Shrubs, Page 40.

CURRANTS

RED LAKE CURRANTS (Minn. 24)

A Minnesota introduction producing heavy crops of big, red berries in long clusters. The bushes are strong and vigorous with healthy foliage. Makes beautiful sparkling bright red jelly. Prices below.

NEW CASCADE CURRANT (Minn. 70)

A new high quality, extra big fruited currant from Minnesota that has a larger berry and ripens a week earlier than Red Lake. Just as hardy and heavy yielding as Red Lake but has shorter stems and more upright growth. Prices below.

GOOSEBERRIES

NEW "PIXWELL" GOOSEBERRIES

Developed by Dr. Yeager at North Dakota Station. Has very few, soft thorns. Berries hang 2 inches below branches and are much easier to pick than other kinds. Extremely hardy even in Canada. The large bushes bear heavy loads of super-quality fruit.

PRICES ON GRAPES—CURRANTS—GOOSEBERRIES

		Each	Three	Six
GRAPES:				
Fredonia or Beta	{ 2 yr., postpaid....	\$0.40	\$1.15	\$2.15
NEW GRAPES:				
Moonbeam or Red Amber or Blue Jay	{ 1 yr., postpaid .	1.10		

		Each	Three	Six
CURRANTS:				
Red Lake	{ 1 yr., postpaid.....	\$0.50	\$1.25	\$2.35
	{ 2 yr., postpaid.....	.65	1.85	3.20
Cascade	{ 1 yr., postpaid.....	.60	1.70	3.00
	{ 2 yr., postpaid.....	.75	2.15	3.85
GOOSEBERRIES:				
Pixwell....	2 yr., postpaid.....	.95	2.75	5.35

NORTHERN ROOTED

APPLE TREES

SEE COLOR
ILLUSTRATIONS
ON PAGE 40

Reliable Old Favorites

BIG RED HARALSON APPLE—Produces a good size, deep red, winter apple of excellent flavor, with outstanding keeping qualities—keeping in perfect condition until late spring. It is free from blight and, best of all, has the tendency to bear early.

DUCHESS—A popular old favorite, and still one of the most delicious summer apples. It ripens very early, yields heavily, and proves hardy in severe climates.

WEALTHY—The leading apple for its season (Sept. to Jan.). The fruit is large, a beautiful shade of deep red, and the flavor excellent. One of the best eating apples grown in the Northwest. A good keeper and heavy yielder.

CORTLAND—(Improved McIntosh.) This new apple is smashing its way into front page popularity. Its bright red color and top-notch quality make it a favorite of the late fall apples. Flavor is delicious. They are easy to grow and hang long on the trees.

DELICIOUS—A favorite winter apple for commercial and home orchards. Fruit large, flesh fine grained, sweet, juicy and really delicious. Our northern rooted stock is hardy in favorable locations.

ANOKA—Summer apple, very early to ripen, which bears the second year. Resists blight and produces a consistent crop.

NORTHWESTERN GREENING—The fruit is very large, smooth, handsome, turning yellow as it matures. In good demand as a baking and cooking apple for late winter and spring. Season, December to March.

—The Finest in Crab Apples—

NEW PIOTOSH CRAB—A new crab from Canada that's even better than Whitney for eating, canning, pickles, or preserves. Medium large, bright red color, very attractive. Bears heavier than Whitney, with better quality, flavor and hardness.

NEW "RED RIVER" CRAB—A North Dakota triumph! A cross of Dolgo ("Beauty Crab"), and the famed Delicious Apple. Result—a new "glamour fruit" combining the beauty, color and zip of Dolgo with the sweet flavor of Delicious. A good sized crab—hardy even in Canada.

Improved Apples

NEW FIRESIDE—NOW! A MINNESOTA DELICIOUS that's hardy for Minnesota! Truly a triumph of fruit breeding. Flavor and texture even better than Delicious, although fruit is not so highly colored. Fireside is a large, long keeping winter apple with the finest flavor ever produced at Minnesota's Fruit Farm. Flesh is crisp, sweet, juicy—never becomes "flat and mealy."

NEW BEACON—(Minnesota No. 423.) Early fall red eating apple. Ready before Wealthy or McIntosh. Ripens but a few days later than Duchess and will keep a month after harvest. It is highly colored, fine quality and solid red. Hardy, very productive.

NEW "MINJON" APPLE—A Minnesota Jonathan, so hardy it thrives and produces far North. Bears abundantly and regularly—heavy loads of brilliant all-red apples. Ripens with Wealthy, but colors better, hangs to tree better.

NEW PRAIRIE SPY—(Minn. No. 1007.) A new long-keeping, super quality apple, so far superior to others marketed after Christmas, that a ready market awaits all that can be grown for many years. Very productive and fruit hangs well to trees. No finer quality anywhere. Perfectly hardy anywhere in Minnesota. (See page 40.)

RED FLESH CRAB—A novel crab of striking appearance. Red flowers, bright red apples with red flesh! Makes brilliant red apple sauce, jam or jelly. Delightful flavor. Perfectly hardy.

WHITNEY CRAB—A favorite in the home for canning and preserving. Fruit is of good size—very highly colored. Immense crops.

DOLGO, THE LAWN TREE CRAB—Has rare beauty as an ornamental lawn tree, and is perfectly hardy. The apple itself is a very rich red, and jells perfectly, even when dead ripe. A fine canning crab.

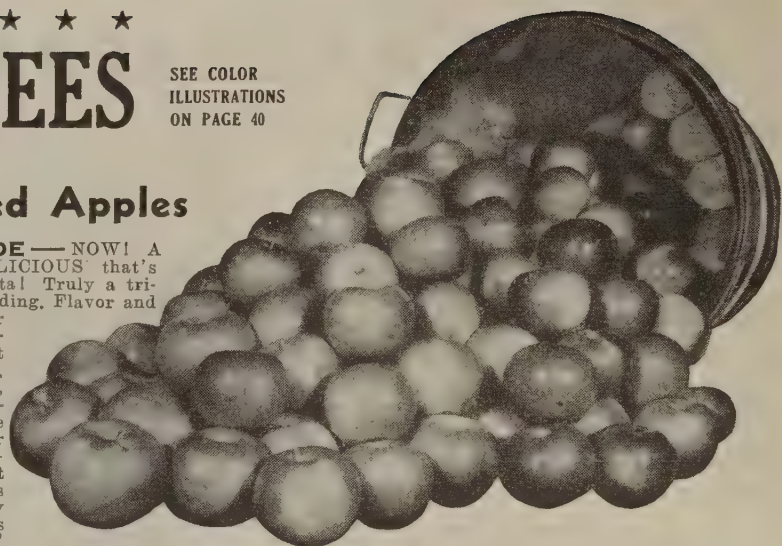
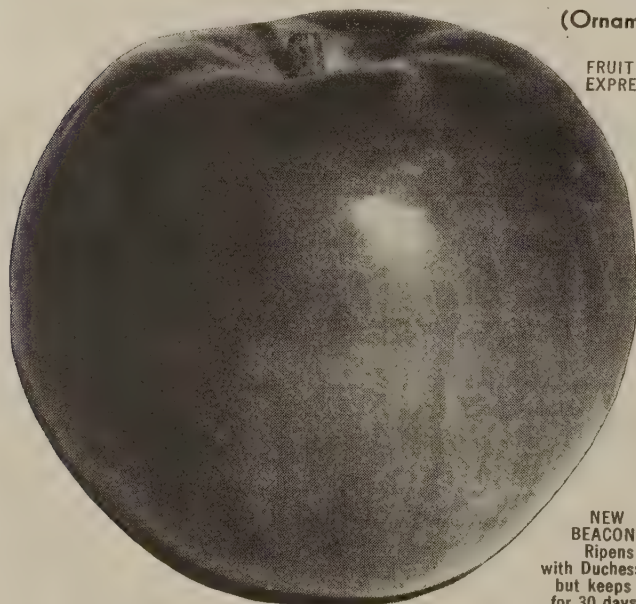
(Ornamental Crabs—See Page 34)

FRUIT TREES SHIPPED
EXPRESS NOT PREPAID

APPLE TREE PRICES

		SIZES		1 to 4 EACH	5 to 9 EACH	10 or more EACH
STANDARD VARIETIES:						
Duchess	Anoka	} 3 to 4 ft.	.....	\$0.85	\$0.80	\$0.75
Wealthy	Cortland		.....	1.15	1.10	1.05
Delicious	N. W. Greening		.....	1.40	1.35	1.30
Haralson—(no 5-6 ft.)						
IMPROVED APPLES:						
Fireside	Minjon	} 3 to 4 ft.	.....	1.10	1.05	1.00
Beacon	Prairie Spy		.....	1.50	1.45	1.40
			.....	1.75	1.70	1.65
NEWEST APPLES:						
New Redwell	.....	} 3 to 4 ft.	.....	1.45	1.40	1.35
Minn. No. 714	.....		.....	1.70	1.65	1.60
Minn. No. 790	.....		.....	1.95	1.90	1.85
SPECIAL PATENTED APPLE:						
Minnetonka Beauty	.....	} 3 to 4 ft.	.....	1.50	1.45	1.40
			.....	1.85	1.80	1.75
			.....	2.25	2.20	2.15
CRAB APPLES:						
Whitney	Red Flesh	} 3 to 4 ft.	.....	0.85	0.80	0.75
Dolgo	.....		.....	1.15	1.10	1.05
Red River	.....		.....	1.40	1.35	1.30

NEW CRAB: Piotosh—(Same price as Improved Apples).



The Newest Apples from Minnesota!

NEW MINNETONKA BEAUTY—(Plant Patent 474.) One of the most promising winter apples ever introduced in this territory. Important features: Quality is exceptional—pleasantly mild, sub-acid—it's considered as good as Delicious! Extremely hardy for severe Minnesota climates. Attractively colored, bright red. Ripens September 20 to 30. An unusually good keeper, it maintains quality into spring months. (See page 41.)

NEW REDWELL—A new development from University Farm. An early winter apple, above medium size and bright solid red. Moderately juicy, its pleasantly mild flavor makes it a good eating apple. Excellent for baking and cooking. Fruits hang well to trees even in high winds. A dependable bearer. Keeps until January.

MINNESOTA NO. 714—Another new apple from Minn. Fruit Farm—offered for the first time. Prof. Alderman (U. of Minn.) says of it: "A large attractive early summer apple of top quality for dessert or cooking." Designed to replace such varieties as Yellow Transparent. Profitable for home or market.

MINNESOTA NO. 790—A splendid new large red winter apple. Hardier and considered superior to Roman Beauty, popular baking apple. No. 790 is highly prized for size, color, flavor and hangs well on the trees. (Pg. 41.)

IMPORTANT! Insist on Northern Rooted Stocks. Beware of southern grown, common rooted trees. See the difference on page 30.

HARDY CHERRIES

The Best Hybrid Cherries

These delicious hybrid cherries become more popular every year. Extremely hardy—thrive in any soil (even sand)—bear big crops in two or three years. Ideal for canning, sauce, or pies. Sapa is delicious eaten fresh.

SAPA CHERRY—A big purple-red cherry with delicious wine red flesh. Thin skinned, small pit. Makes pies and sauce of most appetizing color and flavor. Often sets fruit second year. Yields best if grown as a large bush by pruning severely—cutting out older growth annually. Plant with Hansen Bush Cherry to insure pollination. Prices below.

COMPASS CHERRY—Hardy throughout the Northwest and Canada. Fruit is black, of medium size and good quality. Makes delicious pies, preserves, etc. Plant a Hansen Bush Cherry also to insure pollination.

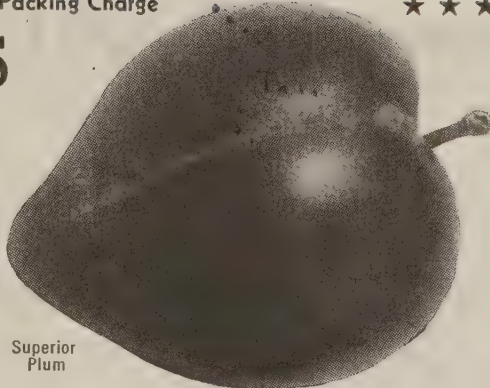
OPATA CHERRY—Bears loads of dark purple red cherry-plums, generally the second year. Excellent to eat out of hand. Fruit ripens very early in August, is thin skinned and has very small pit. Plant a Hansen Bush Cherry also to insure pollination.

New Bush Cherries

IMPROVED NANKING CHERRY—U. of Minn. selections from Northern China's cherries! Graceful 7 ft. shrubs, radiant with bloom in spring, loaded with long ropes of bright red fruit of "true cherry flavor" by mid-July. Splendid for pies, sauce or preserves—delicious eaten fresh. Often bear second year. Insist on budded stock—seedlings are inferior. Plant two or more to insure pollination. (Inside front cover.) Prices below.

NEW KOREAN CHERRY—Dwarf 3½ ft. plants are a mass of gorgeous blooms in spring, followed by loads of delicious full-sized bright red cherries—sweeter than commercial pie cherries. Makes appetizing pies, tasty sauce and preserves. Very hardy—often bear second year. Plant two or more to insure pollination. (Inside front cover.) Prices below.

HANSEN BUSH CHERRY—These little 3 to 4 ft. bush cherries have proved the most effective pollinizer for all hybrid cherries (above). Hansen produces small deep red fruit very early. Makes fine jam. A midget sensation in bloom. Silver green foliage turns red and gold in fall. Gorgeous for hedges. Plant two to pollinate each other.



Superior Plum

JUMBO PLUMS

NEW PIPESTONE PLUM—Minnesota's newest "JUMBO" plum! Largest of all and much better than most plums now grown. Extra early—ripens first week in August. A heavy cropper—exceptional eating quality and also excellent for canning. Color photo, page 40. Prices below.

NEW REDCOAT—(Free Stone). This brand new Minn. State Fruit Farm plum bears heavy loads of choice quality, all red, prune shaped fruit, with a perfectly free stone. A grand improvement over Red Wing and older plums. Prices below.

NEW SUGAR PLUM—(Pollinator). Sugar Plum (South Dakota 27) has proved a most efficient pollinator for other plums on this page. It's a most attractive red and yellow plum of delightful flavor. Ideal for eating out of hand or canning. Prices below.

MT. ROYAL BLUE PLUM—Now you can grow these big European Type Blue Plums in your own back yard, instead of buying "shipped in" fruit from the grocery. Fruit is a beautiful blue—makes delightful dessert, jam or preserves. Tested in Minnesota and Canada for extreme hardiness. A big yielder and self-fertile (a single tree will bear fruit). Prices below.

SUPERIOR—A hardy plum originated at the State Fruit Breeding Farm by crossing big California Burbank varieties. As large as California plums, surpassing them in quality and hardiness. Firm flesh, beautiful red color, peels like a peach. Prices below.

UNDERWOOD—Bears annually, is of large size and excellent flavor: flesh firm, small pit. It may be readily peeled for canning. Sugar Plum or Kaga should also be planted to insure setting of fruit. Prices below.

KAGA — (Pollinator.) An outstanding canning plum originated by Prof. Hansen of the S. D. Agricultural college. Has a distinct, delicious flavor, and is sometimes called the apricot plum. For canning or jam, it is unsurpassed. A fine pollinator for any plums offered on this page. Prices below.

HARDY PEARS

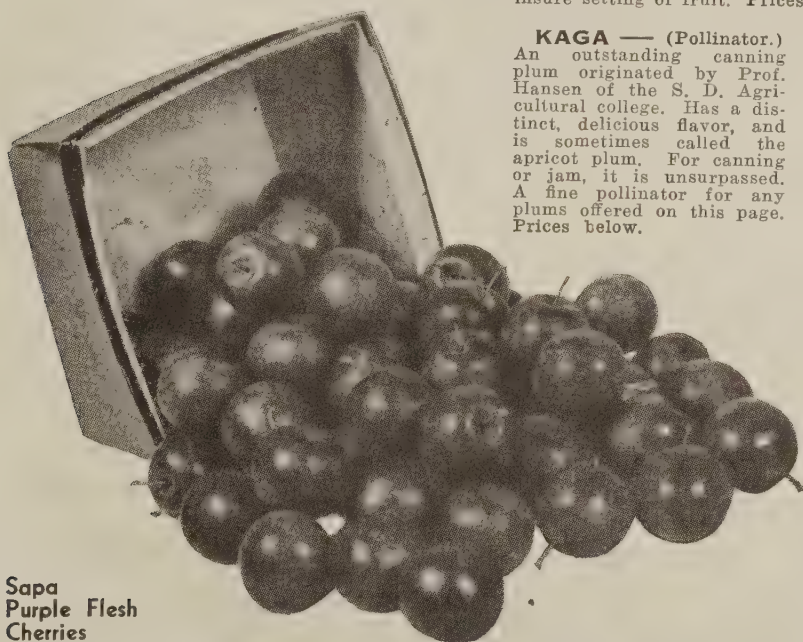
BANTAM PEAR—NOW a real high quality eating pear, with hardness of a Duchess apple! Latest sensation of Minn. Fruit Farm. Flavor of the luscious fruit—a big surprise. Not a large pear—but makes up in quality what it may lack in size. A vigorous grower, free from blight, stands severe cold. Ideal for lawn planting.

PARKER PEAR—Introduced by the Minnesota State Fruit Farm, this splendid pear is now recommended for the southern half of Minnesota and similar latitudes. The fruit is medium to large, with smooth skin; color, yellow-bronze with faint blush. Flesh is fine-grained, tender, sweet, and juicy. Fruit ripens in early September.

PATTEN PEAR—This pear has been thoroughly tested and is now recommended for planting in southern Minnesota and suggested for trial in favorable locations farther north. The fruit is of good size, resembles Bartlett in form and color; very tender, juicy and of good quality. Season, September.



New Bantam
Highest Quality
Super Hardy



Sapa
Purple Flesh
Cherries

PRICES: PLUMS, CHERRIES, PEARS

		1 to 4	5 to 9	10 or more
		EACH	EACH	EACH
HYBRID CHERRIES:				
Sapa.....	3 to 4 ft.....	\$1.50	\$1.45	\$1.40
Compass.....	4 to 5 ft.....	1.65	1.60	1.55
Opata.....	5 to 6 ft.....	1.85	1.80	1.75
BUSH CHERRIES:				
Hansen.....	18 to 24 in. (transplants) ..	.39	.34	.29
	2 to 3 ft. (transplants) ..	.50	.45	.40
New Nanking.....	18 to 24 in. (Budded stock) ..	1.10		
	2 to 3 ft. (Budded stock) ..	1.35		
New Korean.....	18 to 24 in. (Budded stock) ..	1.35		
	2 to 3 ft. (Budded stock) ..	1.75		
PLUMS:				
Pipestone.....	3 to 4 ft.....	1.50	1.45	1.40
Redcoat.....	4 to 5 ft.....	1.65	1.60	1.55
Sugar Plum.....	5 to 6 ft.....	1.85	1.80	1.75
MT. Royal Blue Plum.....	18 to 24 in.....	1.30		
PEARS:				
New Bantam.....	2 to 3 ft. (Not Branched)....	1.25	1.15	
Parker.....	3 to 4 ft. (Not Branched)....	1.50	1.40	
Patten.....				

Shade & Ornamental TREES



Norway
Maple

A colorful shade tree. 6 to 8 ft. Trees Each \$2.25

Maples Handsome Lawn and Shade Trees

HARD OR SUGAR MAPLE—The very finest in stately beauty and permanence for lawn and boulevard. Gorgeous foliage, especially in autumn when leaves turn to clear yellow and scarlet.

SILVER OR SOFT MAPLE—A rapid grower for quick effect. Leaves appear in early spring, are bright green in color with lower side silvery.

NORWAY MAPLE—Popular for its attractive dome shaped head. Grows to large size, with deep green foliage which turns yellow in autumn.

RED SCHWEDLER MAPLE—Striking purplish-crimson leaves, turning bronze-green in midsummer. Shaped like Norway Maple—a thing of beauty in the yard!

The graceful Niobe Weeping Willow. Big 8-10 ft. Trees \$2.50 each. Other sizes below.



Willow Ornamental Lawn Tree for Background Use

NIOBE WEEPING WILLOW—Graceful drooping form—lovely golden bark, and silver lined foliage. Very hardy.

Walnut The Familiar Native Nut-Bearing Tree

BLACK WALNUT—Large, well shaped, majestic shade trees. Valuable for lawn planting, and for its timber and choice nuts.

Mountain Ash For Lawn Specimen

MOUNTAIN ASH, EUROPEAN—Very showy lawn tree with its white flowers followed by large clusters of bright orange berries, in autumn. Beautiful dark green foliage.

Basswood A Fine Shade Tree for the Lawn

AMERICAN LINDEN (BASSWOOD)—A rapid grower and perfectly hardy. Grows in pyramidal form, has large leaves and fragrant flowers.

Birch Graceful for Lawn Specimen Planting

CUT LEAF WEEPING BIRCH—Admired for its delicately cut foliage on graceful drooping branches, and silvery white bark! Best in moist locations.

WHITE BIRCH—A graceful tree with silvery white bark. Most effective when planted in clumps among evergreens.



Red Schwedler Maple
6-8 ft. Trees, \$3.35 Each



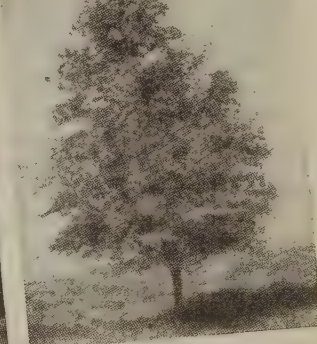
Hard or Sugar Maple
6-8 ft. Trees, \$1.60 Each



Lombardy Poplar
Big 8-10 ft. Trees, \$1.25 Each



Cut Leaf Weeping Birch
5-6 ft. Trees, \$5.00 Each



Chinese Elm
6-8 ft. Trees, \$1.20 Each

Elms Splendid for Shade on Lawn or Boulevard

AMERICAN ELM—The most popular hardy native tree. Grows tall, graceful and spreading. Very hardy. Grandest of all permanent lawn and boulevard trees.

CHINESE ELM, SIBERIAN STRAIN—The fastest growing shade, ornamental or windbreak tree. Very hardy—resistant to drought and extreme temperatures. Attains a height of 60 ft., and girth of 12 ft. or more.



American
Elm

grandest of all shade trees

6-8 ft. Trees \$1.15

8-10 ft. Trees \$1.65

PRICES ON LAWN TREES

Prices are not prepaid—Trees are shipped Express or Freight

	5-6 ft. Each	6-8 ft. Each	8-10 ft. Each
MAPLES:			
Hard Maple.....	\$1.40	\$1.60	
Soft Maple.....	1.25	1.45	\$1.65
Norway (Not Branched).....	1.75	2.25	
Schwedler (Not Branched)....	2.65	3.35	
MOUNTAIN ASH.....	2.00	2.50	
BASSWOOD (Linden).....	1.95	2.75	
BLACK WALNUT.....	2.00	2.50	
ELMS:			
American Elm.....	.85	1.15	1.65
Chinese Elm.....	.85	1.20	
POPLARS:			
Lombardy Poplar.....	.75	.85	1.25
Norway Poplar.....		.95	1.40
BIRCH:			
Cut Leaf Weeping Birch.....	5.00	6.00	
White Birch.....	1.55	1.75	1.95
NIOBE WEEPING WILLOW....	1.00	1.45	2.50

SENSATIONAL Flowering CRABS

RED SILVER—Red from top to bottom in leaf, blossom and fruit! Delicate silver under leaves. Reddest blooms of any crab. It's striking!

HOPA (ROSE PINK)—A most beautiful Flowering Crab. Ideal for the North. Blood-red buds, followed by a profusion of large, single, deep rose blossoms, which remain longer than others. Fruit makes fine jelly.

PRICES: Red Silver or Hopa	3-4 ft. —	\$1.45
	4-5 ft. —	\$1.65
	5-6 ft. —	\$1.95
(By Express-Not Prepaid)		

Poplars For Background, Accent or Screening

LOMBARDY POPLAR—Forms a tall, slim, symmetrical column, tapering to a pointed top. Ideal for landscape effect and screen planting—a rapid grower.

NORWAY POPLAR—Also called Carolina poplar, a hardy quick-growing tree with bright green, dense foliage. Grows anywhere.

★ ★ ★ Save Money on WINDBREAK TREES ★ ★ ★

We offer hardiest recommended varieties for the Northwest. Plant two to five rows for real effectiveness. Plant 6 feet apart in rows 8 feet apart. Cultivate first two years if possible.

Kind & Size	50	100	500	1000
AMERICAN ELM				
12 to 18 in.....	\$2.75	\$ 4.65	\$19.85	\$40.00
18 to 24 in.....	3.35	5.65	25.35	49.00
CHINESE ELM				
12 to 18 in.....	2.45	3.95	18.35	35.00
18 to 24 in.....	2.95	4.95	22.85	44.00
2 to 3 ft.....	3.95	6.65	29.85	58.00
GREEN ASH				
18 to 24 in.....	2.65	4.45	19.65	39.00
2 to 3 ft.....	3.35	5.45	24.95	48.00
3 to 4 ft.....	4.35	7.35	33.35	64.00
SOFT MAPLE				
12 to 18 in.....	2.95	4.95	22.85	44.00
18 to 24 in.....	4.35	7.35	33.35	64.00
NORWAY POPLAR				
18 to 24 in.....	6.25	10.35		
2 to 3 ft.....	7.45	12.35		
3 to 4 ft.....	9.65	15.95		
BLACK WALNUT				
12 to 18 in.....	5.95	9.85		
RUSSIAN OLIVE				
18 to 24 in.....	6.35	10.35		
2 to 3 ft.....	9.85	16.35		
RUSSIAN GOLDEN WILLOW AND *LAUREL LEAF WILLOW				
18 to 24 in.....	3.35	5.45	24.95	48.00
2 to 3 ft.....	4.45	7.35	33.65	64.00
3 to 4 ft.....	5.45	8.95	39.95	78.00

* The Laurel Leaf Willow listed above is unsurpassed in the shelterbelt—especially in the “snow-catch” rows. Hardy, quick-growing, low-branching, with heavy foliage. It thrives in moist soil, but also does well in any ordinary soil and grows 10 to 18 feet high, depending on soil. It is most striking in appearance with greenish bark and brilliant, shiny dark green leaves which glisten in the sunlight as if wet with rain. Compels attention from miles around.



Colorado Blue Spruce forms a Magnificent Windbreak
It's Beautiful, Drought-resisting, Fuel & Feed Saving

Evergreen Windbreak Bargains!

Evergreen transplants may be set out directly into the windbreak row and cultivated like rows of corn. Seedling evergreens should be set in the garden and given special care for two years before resetting into permanent windbreak.

Kind and Size	10	25	50	100
COLORADO SPRUCE				
12 to 15 in. Transplants. Not Prepaid.....	\$ 7.65	\$15.35	\$28.35	\$54.85
15 to 18 in. Transplants. Not Prepaid.....	8.85	17.85	33.35	64.85
BLACK HILLS SPRUCE				
12 to 15 in. Transplants. Not Prepaid.....	8.35	16.65	31.15	60.00
15 to 18 in. Transplants. Not Prepaid.....	9.35	18.65	34.85	67.50
18 to 24 in. Transplants. Not Prepaid.....	10.35	20.75	38.85	75.00
DOUGLAS FIR				
15 to 18 in. Transplants. Not Prepaid.....	8.65	17.35	32.65	
18 to 24 in. Transplants. Not Prepaid.....	9.65	19.45	36.65	
2 to 3 ft. Transplants. Not Prepaid.....	11.35	22.65	42.65	
AMERICAN ARBORVITAE				
12 to 15 in. Transplants. Not Prepaid.....	6.65	13.35	24.85	47.85
15 to 18 in. Transplants. Not Prepaid.....	7.95	16.35	29.85	58.35
18 to 24 in. Transplants. Not Prepaid.....				
24 to 30 in. Transplants. Not Prepaid.....	9.95	19.85	37.85	73.35

★ ★ ★ HARDY HEDGES ~ The Friendly Way to Fence

CHINESE HEDGEWOOD

Extremely hardy, drought resistant and a quick, compact grower. Covered with small, bright green foliage from early spring until late fall. Forms a dense screen. Can be trimmed to any height desired.

RED HONEYSUCKLE

An ideal quick-growing tall screen hedge. Grows 10 to 12 ft. tall, very hardy. Covered with many small rose-pink blossoms in spring, followed by decorative red berries. Plant 24 to 30 inches apart.

DWARF NINEBARK

The finest shrubs we know of for a low growing hedge that's extra hardy for the North and requires a minimum of trimming. Grows 4 feet tall—can be trimmed to any desired height. The small delicate leaves are most attractive and delightfully colored in autumn. Dainty white blooms in spring followed by decorative red pods.

JAPANESE BARBERRY

Makes a neat, low boundary. Can be trimmed or grown naturally. Foliage turns to brilliant crimson in fall; branches are covered with scarlet berries.

ARBORVITAE EVERGREEN HEDGE

Of all evergreens, American Arborvitae seems best adapted to hedge purposes. It's slower to develop than the hedges above, but its beauty and effectiveness are admired winter and summer. Can be trimmed to any shape and height desired. Makes a splendid low formal hedge or a high screen hedge. Set plants 18 inches apart.

50 Plants Make a 50 Foot Hedge

(Set plants 1 ft. apart for thick hedge.)

PRICES ON HEDGE PLANTS

(Shipped Express F. O. B. Faribault)

	25	50	100
CHINESE HEDGEWOOD			
12 to 18 inch.....	\$ 3.35	\$ 6.35	\$11.35
18 to 24 inch.....	3.65	6.85	12.85
2 to 3 ft.....	3.95	7.35	13.65
RED HONEYSUCKLE			
12 to 18 inch.....	\$ 5.45	\$10.35	\$19.35
18 to 24 inch.....	6.75	12.75	23.85
JAPANESE BARBERRY			
12 to 18 inch.....	\$ 4.35	\$ 7.95	\$15.00
18 to 24 inch.....	6.35	11.95	22.50
DWARF NINEBARK			
12 to 18 inch.....	\$ 8.15	\$15.35	\$28.65
ARBORVITAE EVERGREEN HEDGE			
18 to 24 inch. Transplants.....			
24 to 30 inch. Transplants.....	19.85	37.85	73.35



Chinese Hedgewood makes low, formal hedge or a high screen hedge. Can be trimmed to any desired height.

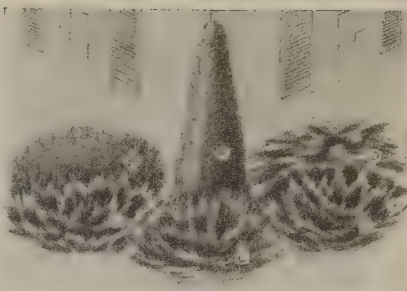
Set Evergreen Windbreaks 6 to 8 feet apart in the row and 12 to 15 feet apart between rows.

★ ★ ★ EVERGREENS ~ for Year 'round Beauty

EVERGREEN PRICES

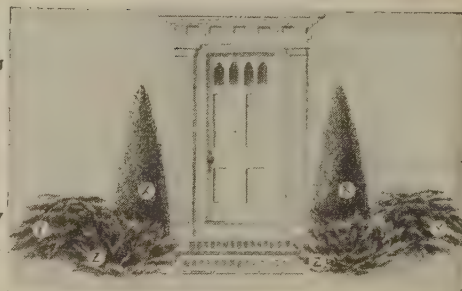
IMPORTANT! Junior Size Evergreens are potted in mud, then individually wrapped in wet moss, and shipped express collect. Master Sizes are balled in earth and burlapped (B&B), and shipped freight, not prepaid.

VARIETY	JUNIOR SIZES Individual Wrap.	MASTER SIZES B & B
PYRAMIDAL ARBORVITAE }	18-24 in. . . . \$2.85	24-30 in. . . . \$6.00 3-4 ft. . . . 10.00
AMERICAN ARBORVITAE }	24-30 in. . . . 2.85	30-36 in. . . . 4.50 3-4 ft. . . . 5.50 4-5 ft. . . . 7.00
SILVER JUNIPER }	18-24 in. . . . 2.00 24-30 in. . . . 2.50	
PFITZER JUNIPER }	15-18 in. . . . 3.75	18-24 in. . . . 5.50 24-30 in. . . . 6.00
SAVIN JUNIPER }		15-18 in. . . . 6.25 18-24 in. . . . 6.75
MUGHO PINE }	12-15 in. . . . 3.00 15-18 in. . . . 3.50	18-24 in. . . . 4.50 24-30 in. . . . 5.50
COLORADO MEDIUM BLUE SPRUCE }		18-24 in. . . . 6.00 24-30 in. . . . 7.50 30-36 in. . . . 9.00 3-4 ft. . . . 11.00
COLORADO BLUE SPRUCE SHINER }		18-24 in. . . . 7.50 24-30 in. . . . 9.00 30-36 in. . . . 11.50 3-4 ft. . . . 14.00
BLACK HILLS SPRUCE }		18-24 in. . . . 6.00 24-30 in. . . . 8.00 30-36 in. . . . 10.00



Corner Planting

Doorway Group



How to arrange Evergreens to improve appearance and enhance the value of your home.

EVERGREENS FOR FOUNDATION PLANTING

Upright Types

PYRAMIDAL ARBORVITAE (X) — Can be used close to the house or walk. Most effective in groups or pairs when used for ornamental planting. Compact and of natural pyramidal form. Thrives in heavy soil.

AMERICAN ARBORVITAE (White Cedar). Will thrive in most any situation—is suitable for ornamental planting, hedging or windbreak. Develops a compact, graceful pyramid. Easily trimmed. Thrives in heavy soil.

SILVER JUNIPER (A) — Forms a narrow compact symmetrical pyramid of light silver—so decorative, especially for entrance planting. Grows 12 ft. high but can be trimmed as desired. Thrives in light or sandy soils.

Low-Growing Types

PFITZER JUNIPER (D) & (Y) — Has spreading branches, handsome gray-green foliage—hardy everywhere and one of the most popular Junipers. Grows 3-4 ft. tall—thrives in shade or sunshine.

SAVIN JUNIPER (C) & (Z) — Beautiful trailing Juniper—favorite of all landscape planters. Has dark green tufted foliage, covering dense spreading branches. Extremely hardy—can be trimmed as desired.

DWARF MUGHO PINE (B) — Dwarf, bushy, compact. Ideal for foreground position. Dark, rich green, long, stiff needles.

— SELECTED SPRUCE SPECIMENS FOR LAWN & GROUP PLANTING —

BLACK HILLS SPRUCE. The living Christmas tree! Perfectly symmetrical and compact with heavy, thick foliage of a somewhat bluish tone. Extremely hardy and very easy to establish. Popular for landscape planting—a stately evergreen for your lawn—one you can be proud of! Choice specimen trees with well developed root—several times transplanted.

COLORADO MEDIUM BLUE SPRUCE (Picea pungens.) Develops a broad pyramid thickly studded with branches clear to the ground, covered with heavy lustrous foliage of varying tones—sometimes deep green, again touched with silver, while others have a decided blue tinge. All grown from seed gathered from select Blue Shiners, but not guaranteed as to color.

COLORADO BLUE SHINERS (Picea pungens glauca). The "Extra Blue" trees—trees of magnificent form, as their thick branches climb in even layers from a broad base to a tapering crown, with heavy, lustrous foliage reflecting the most glorious silver and blue tones. Well rooted, heavy specimens, three times transplanted.



Lilacs For Fragrance and Gorgeous Beauty

★ ★ ★ FRENCH HYBRID LILACS ★ ★ ★

French Lilacs bear larger flowers and bigger, heavier trusses of bloom than those of the common Lilac. Gorgeous in coloring, very free-flowering, delightful fragrance. Our stocks are on their own roots.

CHARLES JOLY. Double. Deep wine-red. The large trusses are held erect, well above the foliage.

ALPHONSE LAVALLE. Double blue with long, broad shapely panicles that open an intense blue, but as florets develop, it changes to a beautiful shade of lavender.

See Color Photo Page 39.

MADAME LEMOINE. Double. Pure white, without a tinge of cream. Panicles large, long, erect.

PRESIDENT GREVY. Double. Clear delicate light blue. Immense panicles, very symmetrical.

Three

French Lilacs

1 Charles Joly—Red.
1 Madame Lemoine—White.
1 Alphonse Lavalle—Blue.

3-year size.

\$255

By Exp. not ppd.

Same Collection

In 4-year size \$3.65 not ppd.

FRENCH LILACS { 3 Yr. Plants, \$1.25 Each, not ppd.
4 Yr. Plants, \$1.65 Each, not ppd.

PERSIAN LILAC

True Rothomagensis—Deep Pink

Truly beautiful planted by themselves or in foundation plantings. Makes the finest of all flowering screen hedges for the north. Presents a breath-taking sight in full bloom, in May. Eventual height, 10 ft. Bushes all grow even in height, graceful and well rounded with all blossoms on the outside. 3-yr. plants \$1.00 each, 4-yr. plants \$1.35 each, by express, not prepaid.

Hardy Everblooming

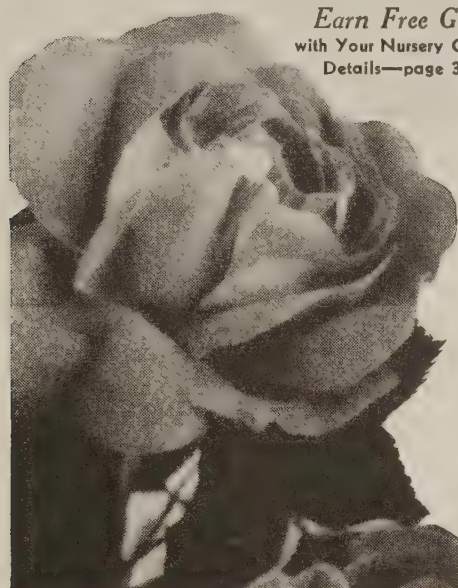


ROSES

EDITOR MC FARLAND. Hybrid Tea. Perfectly formed blooms of clear, brilliant pink, slightly suffused with yellow. Intensely fragrant. Strong stems. 2-yr. field-grown plants, each \$1.25, ppd.

E. G. HILL. Hybrid Tea. Massive, very fragrant blooms of deep velvety maroon on inside, shading to pure red when fully developed. Exceptionally fine buds. 2-yr. field-grown plants, each \$1.25, ppd.

Earn Free Gifts
with Your Nursery Order.
Details—page 30.



Hansa—a fragrant double wine-red Rugosa.

Climbing Roses

EXCELSA. The Improved "Crimson Rambler." Immense clusters of double crimson blooms. A beautiful, vigorous and dependable climber. 2-yr. field-grown plants, each 90c ppd.

DOROTHY PERKINS. Soft shell-pink flowering profusely in large clusters. Very fragrant and lasting. 2-yr. field-grown plants, each 90c, ppd.

PAUL'S SCARLET CLIMBER. Most brilliant of all roses. Color, a vivid scarlet; flowers semi-double, produced in clusters on much-branched canes. 2-yr. field-grown plants, each 95c, ppd.

FRAU KARL DRUSCHKE. Hybrid Perpetual. This is the ideal hardy white rose. The snow-white, long buds are shaded pink, and open to immense, perfectly double flowers, often 4 inches across. Pure in color, perfect in form, strong grower and remarkably free flowering. 2-yr. field-grown plants, each \$1.25, ppd.

JOANNA HILL. Hybrid Tea. Beautiful long pointed buds, opening to large full fragrant flowers of clear yellow, with orange-yellow heart. Very free blooming. 2-yr. field-grown plants, each \$1.25, ppd.

TALISMAN. Hybrid Tea. Brilliant red and gold buds opening to well-shaped blooms of scarlet-orange and rich yellow. The finest of all garden roses for cutting. Constantly in bloom. The plant is strong and vigorous with healthy disease-resistant foliage. 2-yr. field-grown plants, each \$1.25, ppd.



Hardy Rugosa Roses

Rugosa Roses are particularly valuable for their ability to thrive under the most adverse conditions of soil and climate, withstanding Minnesota winters without covering. Blossom all summer. The plants may be used any place—as a boundary hedge between properties, in shrub borders or mass planting.

BELLE POITEVINE. Queen of the pinks. Clusters of double, magenta-pink roses over a long season. 2-yr. field-grown plants, each \$1.00, ppd.

F. J. GROOTENDORST. Produces full clusters of small, semi-double roses of a bright crimson. Resembles the Crimson Baby Rambler. Always in bloom. 2-yr. field-grown plants, each \$1.25, ppd.



Talisman—a brilliant orange-yellow and coppery-red combination.

HANSA. Large, double, fragrant flowers of a rich wine-red color. Handsome dark green foliage. Sturdy and free flowering. 2-yr. field-grown plants, each \$1.00, ppd.

SIR THOMAS LIPTON. Fragrant, double white blooms in clusters. Early and free flowering. 2-yr. field-grown plants, each \$1.15, ppd.

Climbing & Flowering VINES

To screen and shade porches, to cover trellises and arbors and to insure privacy. Small yards and gardens may be fenced and completely inclosed in a wall-of-green, by training hardy vines on the fence.

ENGELMAN'S IVY (Ampelopsis Engelmanni)
To Cover Brick or Stone Walls and Fences.

Clings without support to brick, stone or plaster. Hardy and a rapid grower. Dense green foliage, turning to crimson in fall. 2-yr. vines, 2 for 95c.

BITTERSWEET (Celastrus Scandens)
A Twining Vine to Cover Pergolas and Tree Stumps.

A native climber grown for its brilliant orange berries so popular for winter bouquets. Plant 2 or more in a group to insure bearing fruit. 2-yr. vines, 2 for 55c.

PURPLE CLEMATIS (Clematis Jackmani)
To Grow on Trellis or Lattice.

Widely known for its large, velvety, violet-purple flowers. Succeeds best when planted in rich soil and partial shade. 2-yr. vines, each \$1.25.

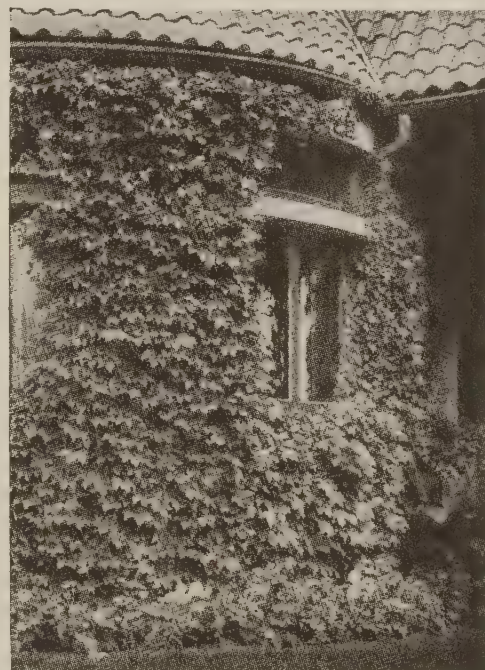
HONEYSUCKLES
Scarlet Trumpet Honeysuckle
For Arbors, Pergolas and Trellises.

A vigorous twining vine with showy, trumpet-shaped flowers of bright scarlet. 2-yr. vines, 2 for 95c.

New Goldflame Honeysuckle
Can be Grown as a Vine or Sheared to Form a Shrub.

Bears immense clusters of fragrant, trumpet-shaped flowers—outside petals brilliant flame-pink, inside creamy golden yellow. Foliage, dark and glossy. 2-yr. plants, each 85c.

If wanted by Parcel Post add 10c for 2 Vines, and 20c for Postage on 4 Vines.



Engelman's Ivy rambles over stone, brick or plaster walls and clings tight without support. Turns crimson in fall.

Soil-Soaker Soaks Soil Thoroughly

Like all-night rain, the water seeps through the pores of the treated, mildew-resistant, self-cleaning canvas hose over its entire 18-ft. length—no spray, no wash, no waste, no wetting leaves of plants. Connect to your hose, turn on water, let it go! With "Y" connection two can be used on one hose, running between rows of plants. Fine for lawns, too.



18 ft.
Length
\$2.15
—
30 ft.
Length
\$3.30
ppd.

Flowering & Ornamental HARDY SHRUBS

★ ★ ★ Plant dwarf shrubs (marked D.), 2 ft. apart; Medium (marked M.), 3 ft. apart; Large (marked L.), 4 ft. apart.

Flowering SHRUBS OF UNUSUAL BEAUTY

HYDRANGEA SNOWHILL

Likes →
Semi-shade

HYDRANGEA SNOWHILL (Arborescens Grandiflora). M. Bears large clusters of white snowball-like flowers all season. Bushes of spreading growth, 3½ ft. high, with large, dark green leaves. Widely used in shady areas, in house - foundation plantings, where it is pleasing throughout the summer.

3-year size \$1.15
4-year size \$1.45
Not Prepaid.



HYDRANGEA PEEGEE (Paniculata Grandiflora). M. Bears immense white conical bloom heads, 12 to 18 inches long, in August and September. When fully developed, flowers turn to pink and bronze and are often cut for winter house decoration. 3-yr. size \$1.00, 4-yr. size \$1.25, not prepaid.

DOUBLE - FLOWERING MOCK - ORANGE (Virginal). L. Notable for its delicious fragrance. Clusters of heavy double white flowers in great profusion in June, followed by occasional bloom all season. A truly beautiful shrub with excellent foliage. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

PINK-FLOWERING ALMOND (Amygdalus rosea). M. Makes an enchanting display in early spring with its beautiful double brilliant pink blooms, borne in profusion all along the branches, before the leaves appear. Plant in full sun. 3-yr. size \$1.00, 4-yr. size \$1.25, not prepaid.

ROSE TREE OF CHINA (Prunus Triloba). L. Dazzling, double pink rose-like flowers completely cover the long graceful branches. Blooms in early May. Use as a lawn specimen or in the shrub border. Full sun. 3-yr. size \$1.15, 4-yr. size \$1.45, not prepaid.

The Spireas



← **CRIMSON SPIREA** (Anthony Waterer). D. Compact, low shrub with erect stems. Rosy-crimson flowers in flat-top clusters all summer.

BRIDAL WREATH (Van Houttei). M. Graceful, arching branches completely covered with snow-white flowers in late May.

DWARF PINK SPIREA (Froebeli). D. A mass of bright rose-pink flowers from July to September.

PINK SUMMER SPIREA (Improved Billardi). M. Plume-like flowers of delicate rose-pink in July and August. Blooms when other shrubs are out of flower.

Price of all Spireas above:
3 year size, 65c 4 year size, 75c
Shipped Express, not prepaid

To "Spotlight" A SHRUB GROUP

RED-LEAVED BARBERRY. D. Rich bronze-red leaves that hold their color all summer. A bright contrast to other shrubs. Plant in full sun for best leaf color. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

VARIEGATED DOGWOOD. L. The green leaves are striped and margined with white. Red colored bark. An unusual plant making a bright spot of color in the shrub border. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

RED FLASH CISTENA. M. Most brilliant of all red-leaved shrubs. Has delicate pink blooms in spring, followed by intense rich red leaves. 3-yr. size \$1.00, 4-yr. size \$1.25, not prepaid.

For Lilacs
See Page 36

Tall SHRUBS FOR BACKGROUND



↑ **FORSYTHIA** (Golden Bell). L. A graceful ornamental shrub with brilliant golden yellow bell-shaped flowers in early spring. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

GOLDEN ELDER. L. A handsome, wide-spreading shrub with bright yellow leaves all season. The color is more intense when planted in a sunny spot. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

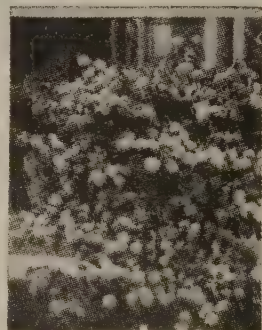
RED-TWIGGED DOGWOOD. L. Bright coral-red branches make this sturdy shrub attractive in all seasons. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

HONEYSUCKLE, RED BUSH (Lonicera Tartarica Rosea). L. Delicately shaped rose-pink flowers followed by bright red berries. Grows to 12 ft. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

MAYDAY TREE. L. From the Imperial Gardens of Russia. Large bush literally covered with white bloom. Flowers even before Bridal Wreath. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

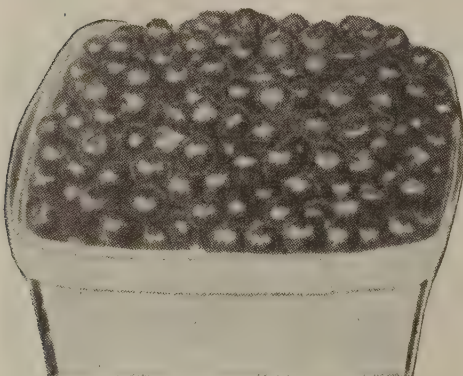
TAMARIX (Lace Tree). L. Striking and unusual with feathery foliage and open clusters of small pink flowers at end of branches in June and July. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

SNOWBALL. Old-Fashioned Favorite. L. Covered with pure white "snowballs" in early spring. Grows in full sun or partial shade. 3-yr. size \$1.00, 4-yr. size \$1.25, not prepaid.



Snowball Bush.

Handsome FRUIT-BEARING SHRUBS



Juneberries Make Luscious Pies

PRICES OF FRUIT-BEARING SHRUBS
3 YEAR, 75c 4 YEAR, 85c
Shipped Express, not prepaid

← Juneberry (M)

Fruit resembles in every way the delicious Blueberry. Looks like it, tastes like it, makes luscious pies and sauce like it. BUT—you can grow Juneberry quickly and easily. No special care or soil conditioning. Super-hardy, fast-growing, thrives in any soil! Its beautiful white blossoms, its red berries which turn blue when ripe, make this plant highly ornamental as well as useful. Order at least 2 plants to insure setting of fruit. Prices at left.

Highbush Cranberry (L)

Attractive, tall, flowering shrubs with white blooms followed by huge clusters of bright red berries which hang on way into winter. A beautiful lawn ornament! Berries make delicious jelly that looks and tastes like that of grocery cranberries. Prices at left.

American Date Berry (L)

School boys' favorite! Novel blue-black berries resemble miniature dates. Relished by youngsters and old-timers alike—(who recall them as "black haws"). Small ornamental trees, ideal for lawn, bear clusters of white flowers in spring, followed by tasty, decorative date berries lasting into winter. Prices at left.

Dwarf SHRUBS

GREEN BARBERRY (Thunbergi). D. Its low spreading growth forms a dense bush. Scarlet and bronze in fall, studded with brilliant red berries. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

COTONEASTER. M. A neat clean shrub with small rounded leaves, dark green and glossy. Inconspicuous pink flowers followed by black fruit. Stands shearing and will grow in shade. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

DWARF NINEBARK. D. Grows only 3½ ft. tall. The small delicate leaves are most attractive and delightfully colored in autumn. Dainty white blossoms in spring are followed by decorative red pods. 3-yr. size 55c, 4-yr. size 65c, not prepaid.

DWARF SIBERIAN ALMOND. D. Dwarf compact bush—has delightful pink flowers early in spring. Very hardy. 3-yr. size 65c, 4-yr. size 75c, not prepaid.

For Hedge Plants see page 35



THE BEST DOUBLE FRENCH LILACS

Our stocks are on their own roots and bear larger flowers and bigger, heavier trusses of bloom than common lilacs. Gorgeous in coloring, very free flowering, delightful fragrance. Do not sucker profusely.

CHAS. JOLLY—Double, deep wine red.

MADAME LEMOINE—Double, pure white.

ALPHONSE LAVALLE—Double, lovely blue.

3 PLANTS

one of each, 3 yr. size: \$2.55

3 plants (1 of ea.) 4 yr. size:

\$3.65 by Exp. not ppd.



NEW MINNESOTA SNOWFLAKE

Extra Double Mockorange
(Plant Patent No. 538)

A gorgeous new very double, extra large flowering type that outshines all others! Every flower fully double glistening snow-white, delightfully sweet scented. Completely hardy, quick growing, a profuse bloomer, and thrives in ordinary soil—in sun or partial shade. Strong 18 to 24 inch plants. Each \$1.25 by Exp. not ppd.

NIOBE WEeping WILLOW

A most graceful weeping tree with deep, rich, golden bark on long, slender drooping branches. Most beautiful and hardiest of willows—a splendid lawn tree.

5-6 ft. trees \$1.00 each, 6-8 ft. trees \$1.45 not ppd.



ROSALIA TREE

Its sensational mass of bloom is truly a "traffic stopper." Blood-red buds followed by a profusion of large, single, deep rose blossoms. Perfectly hardy. The Crab-apple like fruit makes fine jelly.

5 to 6 ft. trees \$1.95; 4 to 5 ft. \$1.65 by Exp. not ppd.

FREE GIFTS with Early Nursery Orders. See page 30

PAUL'S SCARLET CLIMBER

The most brilliantly colored of any rose! Great clusters of 3 to 6, large, semi-double blooms borne in great profusion. Can be cut freely, with long stems.

Strong 2 yr. plants, postpaid for 95c each.



HOME LANDSCAPE COLLECTION

The best hardy dependable flowering shrubs for foundation or landscape planting. Enhance your home many times this small cost in a short time.

- A - 1 Red Honeysuckle
- E - 2 Spirea Dwarf Pink
- B - 1 Hydrangea Snowhill
- D - 1 Spirea Bridal Wreath
- F - 2 Forsythia Golden Bell
- C - 2 Hydrangea P. G.
- G - 2 Mockorange Virginal
- H - 1 Persian Lilac

All 12 Shrubs
4-year size
(Value \$10.20)

For Only **\$8.50**

Not Prepaid
By Exp.

12

Shrubs as listed
3 year size
(Value \$8.10)

\$6.75

Not Prepaid



LATHAM RED RASPBERRY

The most popular and most productive Red Raspberry grown. Matures in midseason. Our vigorous, disease-free plants provide substantial pickings the second season and for many years thereafter.

2 yr. heavy plants ppd: 12 for \$2.15

NEW MOONBEAM GRAPE

Survives Minnesota winters! A new Minn. Experiment Station achievement. Heavy clusters of big, luscious golden-green grapes with unusually SWEET, MILD FLAVOR on vigorous vines with attractive foliage. The ideal arbor plant! Grow these full-sized, winter-hardy grapes of superb dessert quality. Rivals California's finest.

1 yr. old plants \$1.10 each ppd.

PURPLE HEART HYBRID CHERRIES

Big flavorful hybrid cherries of Sapa type with juicy purple-red flesh—delicious eaten fresh—superb for canning. Make tasty pies, sauce, preserves. Often bear second year. Survives 40 below winters. Fruit is wine-red, thin skinned, ripens early August. Plant with Hansen Pollinator Cherry (inside front cover).

4-5 ft. size \$1.65 each; by Exp. not ppd.



SUPERIOR PLUM

A hardy Minnesota introduction developed by crossing big California Burbank plums. Superior has the size and quality of its California parents but is extra hardy for the North. Beautiful red color—peels like a peach!

4-5 ft. size \$1.65 each, by Exp. not ppd.



★ ★ ★



FREE GIFTS with Early Nursery Orders. See page 30.

FREDONIA GRAPE

An extra early, top quality, black grape of Concord type, but ripens 3 weeks earlier than Concord—thus better suited to Northern growing. It's a heavy producer with quality equal to Concord. It should have winter protection. (Page 31.) Heavy 2 yr. plants ppd.

40c each. 3 for \$1.15

NEW MINNETONKA BEAUTY

(Plant Patent No. 474.) Prof. Alderman of U. of Minn. says. "The Minnetonka Beauty is a late winter apple of rather exceptional dessert quality and an excellent keeper. It is above medium size, attractively colored, red over yellow, with firm but tender flesh. It rates excellent in quality." Quality is considered equal to Delicious. Hardy for Central Minnesota. Ripens Sept. 20th to 30th. 4 to 5 ft. trees, by Exp. not ppd. Each \$1.85



3 Famous New WINTER APPLES

1 Minnetonka Beauty 1 of each
1 Prairie Spy (4 to 5 ft. size)
1 Minnesota No. 790 for \$4.75

By Exp. not ppd.

NEW PRAIRIE SPY APPLE

A new long keeping winter apple that really has splendid eating quality. Hardy even somewhat north of Twin Cities. A heavy and consistent producer—fruit hangs well to tree. Nothing finer for home or market.

4 to 5 ft. trees by Exp. not ppd. Each \$1.50



WHITNEY CRAB

A delightful old favorite for eating, canning and pickling. Makes fine jelly. Bears heavy crops of good-sized, mild, sweet-flavored fruit that ripens early. The school boy's favorite—nothing more practical for the home yard. Hardy and free from blight. (Page 32.) Large 5 to 7 ft. trees by Exp. Each \$1.40.

PIPESTONE PLUM

Minnesota's newest "JUMBO" Plum! Largest of all and much better than most plums now grown. Extra early—ripens first week in August. A heavy cropper, perfectly hardy, exceptional eating quality. Splendid for canning. (Page 33). Large 5 to 6 ft. trees, by Exp. not ppd.

Each \$1.85



NEW MINN. 790 APPLE

A large dark red winter apple with above average dessert quality. Distinctly better than Roman Beauty. One of the best for baking, pie or sauce. The strong growing trees become heavily loaded with fruit.

4 to 5 ft. trees by Exp. not ppd. Each \$1.70.



HIGH BUSH CRANBERRY

Now you can make delicious, tangy, sparkling red jelly that looks and tastes exactly like that made from "grocery store" cranberries and gather the fruit in your own yard! Graceful shrubs, with tiny white "beauty blooms," bear big clusters of bright red berries. Ornamental as well as useful. Perfectly hardy—easy to grow.

Large 4 yr. plants, 85c Each; 3 yr. plants, 75c Each by Exp. not ppd.



MAMMOTH BOYSENBERRY

The largest bramble berry with fruit measuring 1½ to 2 inches long! A pleasing blend of Raspberry and Dewberry flavor. Delicious fresh, canned, or frozen! We offer only the thorny type since the thornless variety is not as hardy for the north. (Page 31). 1 yr. plants

6 for \$1.35 12 for \$2.40 ppd.



Prize Winning GLADIOLUS

These distinguished newcomers will be found in the most exclusive 1947 gardens.

ELIZABETH

THE QUEEN

NEW
EUROPE

OREGON
GOLD

3 RARE NEW GLADIOLUS

— Exclusive Ultra-Modern Selections —

NEW EUROPE—Vivid sparkling orange-scarlet with throat stripe.

20c each, 3 for 50c

ELIZABETH THE QUEEN—Exquisite lavender, heavily ruffled.

40c each, 3 for \$1.00

OREGON GOLD—Massive light yellow blending to deep yellow.

35c each, 3 for 90c

6 ULTRA-MODERN GLADS (2 each of above) — \$1.50

18 BLUE RIBBON GLADS

3 each of the six varieties described at right, \$1.85 For Postpaid

1 BIT O'HEAVEN

Flaming orange with yellow throat. Opens 10-12 florets on a tall, straight plant.

3 bulbs for 35c, 6 for 65c 12 for \$1.10

2 PURPLE HEART

Velvety red-purple. The richest of all the purples. Long flower spike on slender straight stem.

3 bulbs for 40c, 6 for 75c, 12 for \$1.25

3 ROSA VAN LIMA

Cool, light pink with delicately marked white throat. Very uniform and dependable in habit.

3 bulbs for 35c, 6 for 65c, 12 for \$1.10

4 RED LIGHTNING

Striking bright red with cream stamens and blotch in throat, producing a striking color combination.

3 bulbs for 40c, 6 for 75c, 12 for \$1.25

5 SNOW PRINCESS

Very fine new white of good size and form. Tall, with long flower spike and perfectly placed blooms.

3 bulbs for 35c, 6 for 65c, 12 for \$1.10

6 MARGARET FULTON

Rich deep salmon-pink with remarkably clean-cut florets. One of the best for cutting.

3 bulbs for 30c, 6 for 50c, 12 for 90c

The Choicest Modern Gladiolus

Eight Aristocrats

AUTUMN GOLD. Deep golden florets, softly ruffled, and tinged with some orange. Makes fine straight spikes with large blooms $4\frac{1}{2}$ -5 in. across. 3 for 35c, 6 for 65c, 12 for \$1.10.

BARCAROLLE. Heavily ruffled florets of an exquisitely clear shade of true orange. 3 for 35c, 6 for 65c, 12 for \$1.10.

BLACK OPAL. Superb deep rich red. Nine to ten large round florets perfectly spaced on fine long spike. 3 for 45c, 6 for 85c, 12 for \$1.40.

CHIEF MULTNOMAH. Most richly colored of all smokies. Magnificent red-purple with striking red blotch in throat. 3 for 35c, 6 for 65c, 12 for \$1.10.

CORONA. Huge white, blending to light pink at extreme edge of petals, in a distinct picotee effect. 3 for 35c, 6 for 65c, 12 for \$1.10.

EARLY ROSE. Rich rose, shading to lighter rose, producing a two-tone effect. Very early, and an ideal cut flower. 3 for 35c, 6 for 65c, 12 for \$1.10.

MAX REGER. Lavender-blue, with darker throat markings, ending in sharp white points, giving the flower an unusual beauty. 3 for 35c, 6 for 65c, 12 for \$1.10.

MARGARET BEATON. Freshly beautiful, snow-white florets with a tiny spark of vermilion-pink deep in throat. Winner of many awards. 3 for 35c, 6 for 65c, 12 for \$1.10.

Special—One each of above Eight Aristocrats for 85c.

TO CONTROL THRIP

Spray Glads Regularly

Spraying must begin when gladiolus plants are only 5 inches high, and continue once a week regularly, until the buds begin to show color, when all spraying can be discontinued.

Use a good commercial spray such as DuraDust (see page 74) or a home mixed spray, using the following formula.

SPRAY FORMULA:

- 1 Ounce Tartar Emetic
- 4 Ounces Brown Sugar
- 3 Gallons Water

The best time to spray for thrip is late afternoon, as they hide during the day, coming out to feed after 4 o'clock.

Seven Prize Winners

ARETHUSA. Nearest to a tan or "pongee" shade, with large wide-open florets, intensely frilled. 3 for 35c, 6 for 65c, 12 for \$1.10.

BLUE BEAUTY. Exquisite medium-blue, with edges of petals suffused rich violet-blue. 3 for 35c, 6 for 65c, 12 for \$1.10.

JEANIE. Rich pure pink with a golden throat. Its exquisitely clear coloring is accented by white midribs. 3 for 45c, 6 for 85c, 12 for \$1.40.

LADY JANE. A clear rich cream, with yellow lip petals. Makes a consistently fine spike. 3 for 45c, 6 for 85c, 12 for \$1.40.

LIBERATOR. Richest of all scarlets. The giant blooms are of perfect form, with a silvery lustre. 3 for 45c, 6 for 85c, 12 for \$1.40.

SURFSIDE. Beautifully ruffled blooms of pure white with a faint violet line in throat. Florets have the satiny sheen of Picardy. 3 for 35c, 6 for 65c, 12 for \$1.10.

VALOR. Deep salmon-pink with a distinct creamy yellow throat blotch. A sensation in table bouquets and basket-work. 3 for 35c, 6 for 65c, 12 for \$1.10.

Special—One each of above Seven Prize Winners for 80c prepaid.

Six Giant Glads

BAGDAD. A mammoth glad of smoky salmon-rose with faint creamy blotches marked with pink. 3 for 30c, 6 for 50c, 12 for 90c.

KING LEAE. Magnificent tall ruffled red-purple, bordered with a silver line at edge of petals. 3 for 40c, 6 for 75c, 12 for \$1.25.

PICARDY. Immense florets of delicate shrimp-pink with a silvery sheen. Tall stately spikes 3 for 30c, 6 for 50c, 12 for 90c.

SHIRLEY TEMPLE. Heavily ruffled cream flowers with deeper cream throat. A wonderful exhibition variety. 3 for 35c, 6 for 65c, 12 for \$1.10.

SUPREME COMMANDER. The most striking of all reds. Giant blooms of deep scarlet-red on strong tall spikes. 3 for 40c, 6 for 75c, 12 for \$1.25.

WINGS OF SONG. Fine rose-salmon, blotched cream. The slightly ruffled blooms sometimes have a suggestion of smokiness at the edges. 3 for 30c, 6 for 50c, 12 for 90c.

Special—One each of above 6 Giants for 65c.

Two New Glads

Of Sensational Beauty

Parnassus True Pansy-Purple

A recent introduction of pansy-purple with a white marking in the throat. The lustrous, richly colored florets are so broad petaled as to be almost perfectly round.

White Gold New Giant Cream

A grand flower and enormously popular with everyone who sees it. Tall and vigorous, with 4-6 in. massive blooms on a straight stem. The color is an even cream, blending to gold in throat.

Price, each of above, 30c,
3 for 75c, 6 for \$1.25

F. S. & N. Co's

Rainbow Mixture

of Large-Flowering Glads

A superb combination of all colors, tints and shades, including many unusual colors. You will find that you have Glads not only for cutting but also for exhibition purposes.

Choice Blooming Size Bulbs	25 for \$1.65
	50 for 2.90
	100 for 4.95

All Postpaid.

For Sturdier Plants and Larger Blooms

Treat Your Bulbs with Semesan Just Before Planting

1. Remove the skins so that the corms are bare. (In doing this be careful not to injure the tips). Burn the skins.
2. Dissolve $1\frac{1}{3}$ ounces of Semesan in one gallon of water. Cover the bulbs with this liquid and let them stand for 7 hours. Plant immediately.

Price: 2 oz. can Semesan 40c, prepaid. Full directions with each package. For larger quantities, see page 76.

Soil-Soaker

Like All-Night Rain
It Really Soaks the Soil

Soil-Soaker, open only at one end, screws to the end of the water hose, replacing the nozzle of sprinkler. When the water is turned on, Soil-Soaker fills with water—and normal pressure forces water through the pores of the entire surface of Soil-Soaker, uniformly, without spray. The soil is soaked deeply and thoroughly, covering an area on all sides of Soil-Soaker. Far more beneficial than light surface sprinkling.

Approximately 25% More Efficient

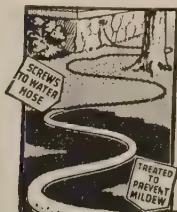
By regulating water flow or pressure at the faucet, all the water may be placed where it will do the most good. Water bills are greatly reduced. The ground is soaked but not the foliage, reducing to a minimum mildew, black spot, and many other leaf troubles caused by overhead sprinkling of flowers.

Offered in 3 Lengths. Prices All Postpaid. Each

No. 1—18 feet... \$2.15

No. 2—30 feet... 3.30

No. 3—50 feet... 5.25



SOIL-SOAKER

To Have Glads for Cutting from Early July Until Frost You Must Make Successive Plantings. Page 43

Giant Exhibition Dahlias

Key to Abbreviations: FD (Formal Decorative), ID (Informal Decorative),
C (Cactus), SC (Semi-Cactus).

BLUE RIVER. (F. D.) Best described as French-violet blue; approaching the blue color more nearly than any other dahlia we know. Bushes are slightly below medium in height. Each 75c.

CITY OF CLEVELAND. (I. D.) Bright orange, suffused scarlet, rich and attractive. From 7 to 11 inches across and 5 inches deep, on thrifty, productive plants five feet high. Each 75c.

GLAMOUR. (I. D.) Everything about the flower suggests size and vigor. The color is an unusual shade of light purple with each petal edged amaranth-pink. Always to be found in the "largest blooms" class at dahlia shows. Each \$1.00.

KING ALFRED. (I. D.) Immense full velvety blossoms of a rich ruby-red. The long silver-backed petals turn and swirl, giving the flowers an unusual color combination of crimson and silver. Can be grown to 12 inches and over. Each 75c.

MRS. GEO. LE BOUTELLIER. (I. D.) Bright velvety carmine-red, shading to rich cardinal-red. A healthy grower with giant blooms, outstanding in every way. Each 75c.

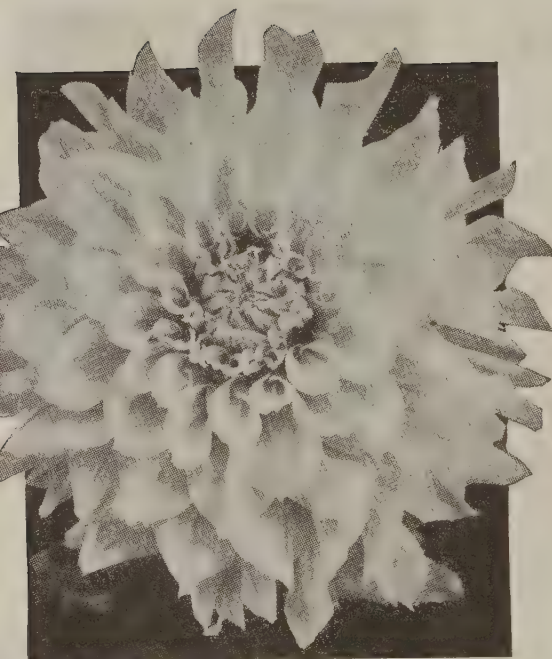
MICHIGAN WHITE. (I. D.) The very best white cut-flower dahlia. Always well-formed, of good substance, flowers average 5 to 8 inches across. Plants are excellent root-makers and very prolific, as many as 18 to 25 blooms opening at one time, on strong, erect stems. Each \$1.00.

OMAR KHAYYAM. (F. D.) Ten-inch blooms of Chinese red, shading to a bright orange and tipped lighter, giving the flower a wonderful color effect. A tall healthy grower and good root-maker. Each 75c.

RUTH VAUGHAN. (F. D.) Beautiful golden-pink flowers, 5 to 7 inches across, carried erect on the best of stems. A fine dahlia for cutting. Sturdy plants of medium height, free and profuse blooming. Each \$1.00.

TOWERS EMPIRE. (I. D.) Giant clear golden yellow, with amber shading at center. Can be grown to enormous size and is always to be found among the prize winners on the show table. Each 75c.

WM. G. WYLLIE. (F. D.) Exceptionally large flowers of yellow, buff and pink. A strong rugged grower with sturdy cane-like stems. Each 75c.



Ruth Vaughan, a beautiful golden pink

Miniature Dahlias

Easy To Grow—Require No Disbudding

Miniature Dahlias come in the same forms and types as the larger dahlias, and are becoming increasingly popular. They require little space, no disbudding, staking or special care and furnish a constant supply of little Dahlias for cutting and garden decoration. **The more you cut them, the better they like it.**

BISHOP OF LLANDAFF. (Duplex.) An unusual and very attractive flower of brilliant scarlet with a deep garnet center. The lacy foliage is reddish-bronze, which makes it outstanding in any planting. Each 60c.

GRACE O'NEAL. (C.) Delicate shrimp-pink with ends of petals silver-tipped. A dependable and consistently fine variety and one of the most popular for cutting. Each 45c.

LITTLE JENNY. (S. C.) Here is a splendid cut flower variety, in an attractive color combination of pink and canary-yellow. Dwarf bush with long stems and unexcelled growing habits. Each \$1.00.

ORCHID LADY. (F. D.) A clear lavender which proves its worth even in the most trying seasons as a producer of nice flowers for exhibition and cutting. Each 45c.

SYLVIA. (F. D.) Brilliant scarlet-red flowers of beautiful form, on low-growing bush. A dahlia that grows well, blooms profusely and keeps well. Each \$1.00.

WHITE FAWN. (C.) This is a pure white Cactus of unusual beauty and form. The petals are lacinated or deeply notched, giving the flower an appearance of great fullness. A winner in all respects. Each \$1.00.

How To Keep Dahlias From Wilting After They Have Been Cut

Dahlias for Bouquets should be cut very early in the morning, disbudded and stripped of lower foliage, put in a pail of water, and set in a cool, dark place for several hours. Then put stems in one inch of hot water (almost boiling) for 2 minutes. Remove, and again place in deep cold water to cool. This treatment will keep blooms fresh.

Four Giant Dahlias

One tuber each of:

City of Cleveland—Orange-red
Glamour—Purple tipped pink
Omar Khayyam—Chinese-red
Wm. G. Wyllie—Buff-pink
\$2.95
(Regular Value \$3.25)

3 Cut-Flower Dahlias

One tuber each of:

Blue River—Violet-blue
Michigan White—White
Ruth Vaughan—Pink
\$2.50
(Regular Value \$2.75)

All Dahlias are Prepaid



Special
19 Canna Roots
for \$1.90, ppd.

In making a round bed, tall varieties should be selected for center of bed, and low-growing sorts for outside row. Roots should be planted 18 inches apart each way.

A round bed, 7 feet in diameter, requires 19 Cannas—one for center; six for first row; twelve for second row.

A round bed, 10 feet in diameter, requires 37 Cannas—one for center; six for first row; twelve for second row; eighteen for third row.

Grow Cannas

For Their Richly Colored Flowers and Attractive Tropical Foliage

We have become so accustomed to seeing Cannas in formal beds in parks that we feel they have no place in smaller plantings. However, the stately plants with their brilliant clusters of flowers hold their own when interplanted with shrubs or in bare spots in the perennial border. Try placing them in groups of three and let them highlight your garden this summer.

KING HUMBERT. 4 ft. Large trusses of orange-scarlet flowers. Foliage is bronze, very broad and handsome. A "Gold Medal" canna.

KING MIDAS. 4 ft. Pure rich yellow flowers mounted on vivid green foliage. Forms a lovely contrast in the garden.

THE PRESIDENT. 4½ ft. Rich glowing scarlet flowers, 7 inches across, on strong, erect stalks. The foliage is green.

HUNGARIA. 3½ ft. The best pink canna. Leaves bluish-green, never burn. Trusses are compact and of enormous size.

YELLOW KING HUMBERT. 4 ft. Flowers a deep rich yellow, softly spotted and blotched with bright red. Foliage very dark green.

Price, any of the above dormant roots,
3 for 45c, 6 for 80c, 12 for \$1.45,
25 for \$2.75, prepaid.

Miscellaneous Spring BULBS

Calla Lilies, Oxalis, Ismene, Tuberoses and Summer Hyacinths are not hardy and the bulbs must be lifted in fall, after the tops have been killed by frost, and stored in a dry, frost-proof cellar.



Oxalis (Shamrock)

For Borders, Edgings, Pot-Plants or Hanging Baskets.

Four-leaved, clover-like plants crowned with masses of flowers on 6-inch stems. The blossoms close and the clover-like leaves fold up at night. Oxalis grows and blooms profusely, forming a graceful edging for walks and flower borders, or may be grown in hanging pots and baskets. Mixed colors only. 12 for 60c, 25 for \$1.00, 50 for \$1.90, prepaid.

Calla Lilies →

Plant them in groups in the foreground of your shrub border or in your perennial garden. You will enjoy the beautiful trumpet-shaped flowers as well as the mottled low-growing foliage.

WHITE CALLA (Aethiopica). Glistening, pure white flowers on 24-inch stems. Each 40c, 3 for \$1.00, 6 for \$1.95, prepaid.

GOLDEN CALLA (Elliottiana). Magnificent golden-yellow flowers. Average height 18 inches. Each 50c, 3 for \$1.30, 6 for \$2.50, prepaid.

PINK CALLA (Rehmanni). A dainty pink form, 12-15 inches high. Each 70c, 3 for \$1.90, 6 for \$3.50, prepaid.



Choice Amaryllis Giant Hybrids

Most Gorgeous of All House Plants.

This is the finest race of Amaryllis in cultivation. The flowers are superbly shaped and of mammoth size, ranging in color from pure white grounds with varied markings of rose and crimson, to the richest self colors, as scarlet, orange-red and crimson.

Giant Hybrids, Mixed Colors Only
Each 75c, 3 for \$2.10 ppd.

← Ismene Large Pure White Blooms Of Exquisite Fragrance

(HYMENOCALLIS CALATHINA) PERUVIAN DAFFODIL
Large, snowy white flowers, borne in clusters on tall stems, are produced 6 weeks after planting the bulbs. Delightfully fragrant and easy to grow. The sturdy 2-foot plants with their long shining amaryllis-like leaves of rich dark green, are attractive garden subjects throughout the summer months. Ismene is an excellent plant for indoor growing, and the bulbs may be potted in February for indoor blooming. Price, each 45c, 3 for \$1.25, 6 for \$2.40, 12 for \$4.50, prepaid.



Tuberose →

Cherished for Its Fragrance.

Pure white wax-like double flowers, closely set on 18-in. spikes. Wonderful in the garden and highly prized for cutting. The flowers have a rich exotic fragrance which is most penetrating in the evening air and perfumes the entire garden. Tuberoses should be planted in groups of 3 or 5, among other garden flowers. 3 for 70c, 6 for \$1.25, 12 for \$2.00, prepaid.



The Pocket Book of Flower Gardening

By Montague Free

Horticulturist, Brooklyn Botanical Garden

A handy reference book of practical advice for flower lovers. Covers year-round gardening problems. Contains article on soil improvement. Gives detailed and specific instructions on the growing and care of Annual and Perennial Flowers, Flowering Bulbs, Rose Gardens, Water Gardens, Rock Gardens and House Plants. Makes a fine gift.

484 Pages 98 Illustrations 30c ppd.

Grow Callas for indoor pot plants or outdoor garden blooms.

Summer Hyacinths

Spire Lily (Galtonia)

Splendid for planting in background groups in the perennial border, where the tall spikes are showy and effective. The plants have broad basal strap-shaped leaves, and in mid-summer send up 3 to 5-foot spikes, each spike bearing from 20 to 30 bell-shaped white flowers, slightly fragrant. Exquisite as cut flowers, arranged in bouquets with gladiolus. Of easiest possible culture, this stately summer-flowering bulb has won many admirers. 3 for 40c, 6 for 70c, 12 for \$1.35, prepaid.

Regal Lilies →

Hardy and Disease-Free.

The Regal Lily has become America's favorite, because of its beauty of form, delightful fragrance and ease of culture. The plants vary in height from 3 to 5 feet and when mature will produce ten or more blooms on a single stem in July. The trumpet-shaped flowers are ivory-white, shaded rose with centers flushed yellow. No garden is complete without a group of these decorative lilies. Each 35c, 3 for 90c, 6 for \$1.50, 12 for \$2.55, prepaid.



Regal Lilies—Most Beautiful and Hardest of All Lilies.

If Interested in Bulbs for Fall Planting, such as Tulips, Hyacinths, Narcissi, etc., send for our Special Bulb Folder—ready September 15th.

Sensational New HARDY MUMS

The Chicago Strain

BARBARA SMALL. Double 3-inch flowers of deep, clear lavender-pink, somewhat lighter at the margins. Stiff, upright stems, 20 to 24 inches long, much branched above, and bearing the blooms at well-spaced intervals. Blooms from mid-September on. Each 50c.

CANDLELIGHT. Well-formed, double flowers of creamy ivory-white. Vigorous plant with abundant foliage. Comes into bloom the first week in September and makes a good display to the end of the season. Each 65c.

DRIFTED SNOW. A mound of large, double white flowers, shaded yellow at center. In full bloom in late September. Each 65c.

GLOWING COALS. Bright, deep cherry-red, with orange reverse. The double flowers are borne in well-branched sprays. Blooms from the last week in September until November. Each 65c.

HARBINGER. Fully double incurved flowers of deep primrose-yellow, with bronze shadings. Plants branch freely, bearing the flowers in clusters. Late August to October. Each 50c.

Charles Nye

A 1946 Introduction. Large 3-inch fully double, rounded flowers of rich buttercup-yellow. Late September to November. Each 75c.



Spoon Mum with Tubular Petals flaring into a distinct spoon shape.

Spoon Mums Delightfully Different

Their charm lies in the shape of the petals, which are tubular near the center of the flower and flatten out at the end, resembling miniature spoons. Be the first in your neighborhood to display these unusual novelties.

WHITE SPOON—White, creamy center.

ORCHID SPOON—Clear orchid-pink.

YELLOW SPOON—Lovely golden-yellow.

Your Choice, any of above 45c
3 Plants for \$1.25 ppd.

Surprise Collection

Choice Mums—Our Selection

5 Plants for \$1.25

10 Plants for \$2.25

25 Plants for \$5.50

All
Prepaid
(Unlabeled)

BRILLIANT SINGLES

Like Giant Daisies

JOAN HELEN. Outstanding new Early Dwarf Variety. Plants form an 18-inch mound of brilliant beauty. Flowers are large, with sparkling wine-red petals surrounding a bright yellow center. Blooms early September. Each 45c.

LOUISE SCHLING. Glowing coppery salmon-red flowers, fully three inches across, with 3 or 4 rows of petals, fluffy and distinct in appearance. Blooms early October. Each 45c.

NORTH STAR. A cascade of pure glistening white daisies by September 15th. Each 45c.

PRIMULA. Bushy spreading plants covered with clear primrose-yellow flowers about September 15th. Each 50c.

REDWOOD. New. A beautiful dwarf bright red with hundreds of bright flowers on dwarf mounds. Excellent edging plant, very free flowering. Very early, often in bloom by mid-August. Each 45c.

TUSSORE. Exceptionally fine lavender-pink flowers 2½ inches in diameter. Upright branching plants. Bloom in September. Each 50c.

One each of above Brilliant Singles
for \$2.50, prepaid.



Louise Schling, Brilliant Salmon-Red

12 SUPERB DOUBLE MUMS

All September Flowering

AUTUMN SUNLIGHT. Very early. A pure golden yellow Mum, wonderful for cutting. In full flower by September 1st. Each 50c.

AVALANCHE. Queen of all whites is this big fluffy handsome Mum. Flowers 4 inches across, of perfect form. Mid-September. Each 45c.

BURGUNDY. Great double flowers of perfect form and depth, in that rarest of colors—glowing wine-red. A long-stemmed, branching plant. Late September. Each 45c.

DAHLIA MUM. Resembles a cactus dahlia, with its long narrow quilled petals. The color is amaranth-purple or dark wine-red. In full bloom by September 15th. Each 45c.

EARLY WONDER. A new large pompon in full flower September 20th. The color is a soft pink. Excellent cut flower. Each 50c.

EGG-SHELL. Distinct egg-shell white, slightly deeper at center. Comes into bloom late September. Each 50c.

LAVENDER LASSIE. A miniature counterpart of Lavender Lady—in full bloom by September 15th. The dwarf 2-ft. plants are bushy in form and completely covered by double pompon blooms of pure lavender. Each 45c.

LITTLE ESKIMO. This dainty little beauty has pure white ball-shaped flowers, 1½ inches across. Plants are low and spreading, about 12 inches high. Early September. Each 45c.

MY LADY. A rich golden color, shaded with orange-red. Double flowers produced in profusion from September 10th on. Each 45c.

RED RIDING HOOD. Outstanding bright red, with well-shaped full flowers 2½ inches across. Late September. Each 50c.

RED VELVET. An unfading velvety crimson of surpassing beauty. Shapely double flowers on graceful, erect stems. Late September. Each 45c.

VIOLET. New University of Minnesota Introduction. Full double flowers of good substance. The color is a true purple. Early September. Each 55c.



New Crimson Mum "Red Velvet"

Plant PEONIES for a Lifetime of Bloom

We supply strong, healthy roots—3 to 5-eye divisions. Our leaflet on Peony Culture tells how deep they should be planted to give best results. Ask for it.

Peonies should be planted where they will receive full sunlight—away from trees and large shrubs.

New Deep Pink Peony

PRES. ROOSEVELT. A strikingly beautiful new Peony of rich, deep pink. The flowers are large and very full, of the double rose type, and are carried on stiff stems. The tall vigorous plants have large glossy leaves hanging downward giving them a dressy appearance. Each \$1.25, prepaid.

EDULIS SUPERBA. An even shade of deep pink; flowers are of the loose flat crown type when fully open, and are very fragrant. Sometimes opens for Decoration Day with us in Minnesota. Its earliness and general good qualities have made it very popular. Each \$1.00, prepaid.

FELIX CROUSSE. Brilliant rose-red of even tone and silky lustre. Shows no stamens. The flower consists of a central bomb of narrow incurved petals, surrounded by broad prominent guard petals. Late midseason. Each \$1.00, prepaid.

FESTIVA MAXIMA. The most satisfactory white. Flowers are large and full, of a lovely clear white with a few flecks of crimson at center. Petals are broad and rounding, of heavy substance. An excellent early garden variety to use for cut flowers. Each \$1.10, prepaid.

KARL ROSENFELD. A brilliant and striking variety, coming into bloom early midseason. Flowers are very large, of semi-rose type and slightly fragrant. Tall and free-flowering. As an early red it has no equal. Each \$1.10, prepaid.

MME. DE VERNEVILLE. A fragrant white Peony, with center petals flecked crimson. Large perfectly formed flower, on long, strong stems. Freely produced, should be in every collection. Early midseason. Each \$1.00, prepaid.

SARAH BERNHARDT. This is the ideal cut flower Peony. The color is a true apple-blossom pink, with each petal silver tipped. It is a late midseason variety, delicately fragrant and exquisitely beautiful. Very free blooming. Each \$1.10, prepaid.

Choice Recleaned
Grasses of Highest
Purity & Germination

Quality LAWN SEED

Approved, Time-Tested
Formulas. Use 125
pounds per acre.

HOW MUCH SEED TO USE

Size of Plot	Square Feet	Quantity of Seed
10 x 20	200	1 lb.
20 x 50	1,000	5 lbs.
20 x 100	2,000	10 lbs.
50 x 100	5,000	25 lbs.
200 x 200	40,000	100 to 125 lbs.

For renovating an old lawn
use half of above quantities.

CREeping BENT GRASS

Makes fine, dense turf.
Ideal for terraces and
putting greens. Makes
compact sod, due to
its spreading habit—eventually
crowding out other grasses. Price:
1 lb. \$1.95, 5 lbs. \$9.25, prepaid.
Not prepaid, 25 lbs. \$43.75.

**\$1.95^{LB}
PPD**

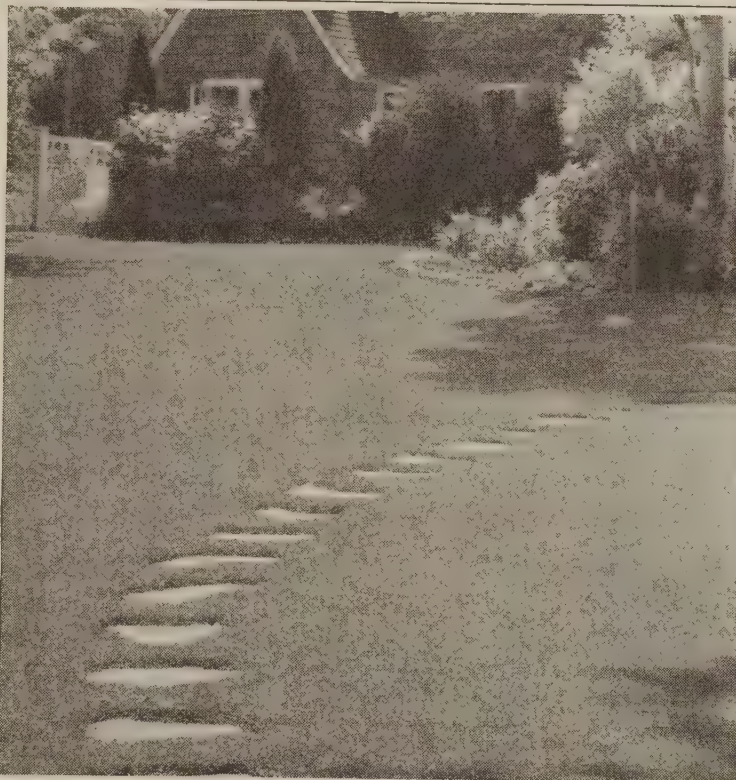
WHITE LAWN CLOVER

Makes a close, com-
pact growth—covering
the ground like a car-
pet. Grows quickly,
producing small white flowers,
thrives in sandy soil where other
grasses fail. Price: 1/2 lb. 75c, 1
lb. \$1.40, 5 lbs. \$6.75, prepaid.

**\$1.40^{LB}
PPD**

FREE LAWN BOOKLET

Tells how to build and maintain a
new lawn—rejuvenate old or worn-
out lawn—how to establish a Bent
Lawn—also lawn care and treat-
ment. It's free with your order—
ask for it.



**Lawns
2 weeks
earlier!**

With ROOTONE WONDER POWDER

Faster germination—deeper roots—healthier seedlings and
luxurious lawns result from dusting grass seed with Hor-
mone Powder. Inexpensive and simple to use. Pkt. to
treat up to 2 to 3 lbs. of seed, 25c—2 oz. to treat 20
lbs. lawn seed, \$1.00, 1b. \$5.00, ppd.

Critical Shortage Of Lawn Grasses

Kentucky Blue Grass, so im-
portant in all good lawn mix-
tures is extremely scarce—this
means that all high quality
grass mixtures are higher in
price. Don't waste time and
money on cheap seed. Buy early
while dependable seed is avail-
able.

30 DAY MIXTURE

A mixture of finest
quick growing and
permanent grasses—
will establish a luxu-
rious lawn in 30 to 40 days under
normal conditions. Contains Ken-
tucky Blue Grass—White Dutch
Clover—Rye Grass and Red Top.
Price: 1 lb. 85c, 5 lbs. \$4.00, pre-
paid. Not prepaid, 25 lbs. \$17.50.

**85c^{LB}
PPD**

GARDEN CITY MIXTURE

Popular quality mix-
ture for general use.
Contains choicest
grasses, roots deeply
and withstands severe drought.
Consists of 50% Kentucky Blue
Grass—balance, Red Top, Chew-
ing's Fescue, Rye Grass, and White
Clover. Price: 1 lb. \$1.10, 5 lbs.
\$5.00, prepaid. Not prepaid, 25 lbs.
\$22.50.

**\$1.10^{LB}
PPD**

SHADY NOOK MIXTURE

Hardy grasses that
thrive in shady places
—ideal for patching
up lawns, filling in
barren places under trees, and on
north side of house. Price: 1 lb.
\$1.25, 5 lbs. \$5.75, prepaid. Not
prepaid, 25 lbs. \$26.25.

**\$1.25^{LB}
PPD**

Feed your lawn regularly with Sacco Fertilizer. See page 73 for prices.

FLOWER SEEDS

The World's Finest

All Flower Seeds are sent Postpaid in U. S. A. Please Order by Name and by Number



Naughty Marietta, a golden-yellow Marigold marked with mahogany.

All-America Winner for 1947

**Marigold
"Naughty Marietta"**

1508 NAUGHTY MARIETTA. 12 in. A lovely new dwarf single French Marigold, with flowers 2 to 2½ inches in diameter. In full bloom, the dwarf plants are 16 inches across, completely covered with bright golden-yellow flowers, attractively marked with mahogany at the base of the petals. Very showy, especially for beds and borders. Pkt. 25c

For other Marigolds see page 54



The somewhat formal plants of Balsam make excellent low-growing hedges.

New Ageratums in Pink and Blue

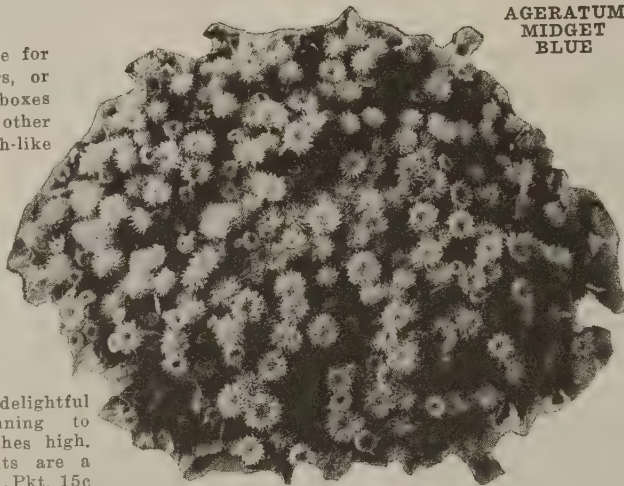
Floss Flower (Annual)

Ageratums are excellent to use for edging walks and flower borders, or they may be used in window boxes and pots in combination with other flowering plants. The soft plush-like little flowers form compact clusters which cover the entire plant. In bloom all summer.

1026 MIDGET BLUE. 4 in. Dwarf and compact, with rich azure-blue flowers. Pkt. 20c

1027 BLUE CAP. 6 in. Deep rich lavender blue. Pkt. 15c

1028 FAIRY PINK. 5 in. A delightful rose-pink variety, beginning to flower when only 1½ inches high. The dwarf, compact plants are a mass of bloom all summer. . Pkt. 15c



AGERATUM
MIDGET
BLUE

Sweet Alyssum—the Ideal Edging



ALYSSUM "SNOWCAP" commences to bloom when only one inch high and continues until frost.

1031 VIOLET QUEEN. 4 in. A bright, deep violet that does not fade in hot weather. Blooms luxuriantly from early summer to frost. Pkt. 15c

1032 SNOWCAP. The dwarfiest and most compact variety. Plants form a dense cluster of snow-white flowers, with the objectionable green center entirely eliminated. Pkt. 15c

1033 LILAC QUEEN. 6 in. Delicate lavender flowers. A pleasing contrast with the white variety. . ¼ oz. 40c, pkt. 10c

ALYSSUM, Madwort (Perennial)

1034 SAXATILE COMPACTUM. "Basket of Gold." 9 in. A mass of golden yellow blooms in early spring when other flowers are scarce. Very effective as a border for tulips. The foliage is silver-gray. Pkt. 15c

Achillea (Perennial)

1020 THE PEARL. 2 ft. Produces large clusters of double pure white flowers from spring until frost. Splendid for cutting. . Pkt. 10c

ANTIRRHINUM, see Snapdragon, page 57.

AQUILEGIA, see Columbine, page 51.

Aubrietia Purple Rock Cress (Perennial)

1045 LARGE FLOWERING HYBRIDS MIXED. 6 in. One of the most beautiful of all dwarf creeping plants. Forms a dense mat of foliage, which in early spring is a sheet of brilliant bloom. Colors include lavender, mauve, purple and violet. Excellent for planting between flagstones, in rock wall crevices, or as a border. . . . Pkt. 25c

BABY'S BREATH, see Gypsophila, page 53.
BACHELOR'S BUTTON, see Centaurea.

Balsam Touch-Me-Not (Annual)

1205 DOUBLE MIXED. Height 18-24 in. Sturdy bushy plants with large double flowers clustered in the axils of the leaves. Often called "Touch-Me-Not" because the ripe seed pods snap open when touched, scattering the seed in all directions. Colors: red, rose, pink and white. Prefer rich soil and sunny position. Pkt. 10c

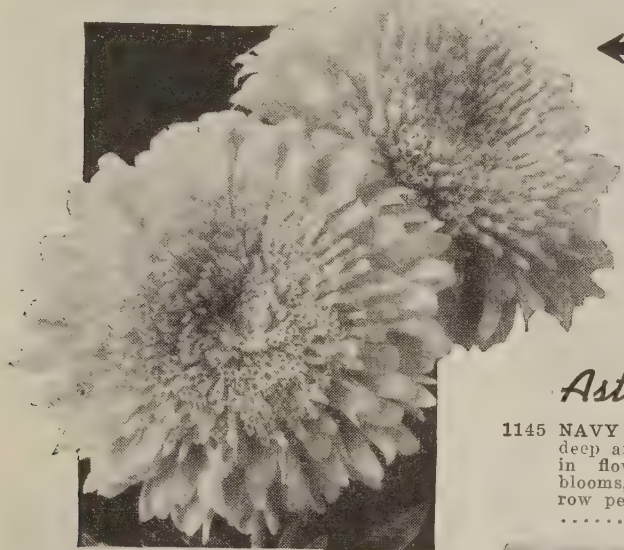
Baptisia False Indigo (Perennial)

1206 AUSTRALIS. 3 ft. Strong-growing, bushy plants with handsome dark green cut foliage and spikes of deep blue, lupine-like flowers in June and July. A splendid background plant. Remains attractive even when not in bloom. Pkt. 10c

For a beautiful Permanent Edging, plant Aubrietia with Perennial Candytuft—they come into bloom at the same time, and the color combination is delightful.

Wilt Resistant Asters

A special strain bred to resist Fusarium Wilt and much more vigorous and productive than the ordinary strains. The different types which we offer, vary in form and blooming season. By starting seed of various types, you are assured of brilliant garden display and flowers for cutting from mid-summer to frost.



Early Beauty

(Early Midseason Wilt Resistant)

This beautiful strain is rapidly superseding American Branching for general use. Plants are of the non-lateral branching type, grow 2-3 ft. tall, and produce enormous flowers on long, strong stems. Superb for cutting.

1100 Crimson.

1101 September Beauty, flesh pink.

1102 Azure Fairy, clear lavender-blue.

Any of the above, pkt. 15c.
3 Pkts. for 40c

Early Dawn

(Earliest of All)

A new class that is very early, beginning to flower in mid-July. Large, well-formed blooms about 4 inches across, borne on strong stems. Plants grow 16 to 18 inches tall. An excellent cutting variety.

1110 Finest Mixed..... 1/2 oz. 40c; pkt. 15c

Early Royal

(Early Midseason, Wilt Resistant)

These come into bloom in mid-August. The flowers are large and very double, with broad incurved petals; stems are long and upright, branching from the base of the plants. Height of plants, 2 feet.

1125 Royal Rose

1127 Royal Lavender

1128 Royal Purple

Any of above, pkt. 15c.

1130 Royal Mixed..... 1/2 oz. 40c; pkt. 15c

Giant Mammoth Peony Flowered

(Midseason) Height 2 1/2-3 ft.

A super strain with immense double flowers of perfect form, borne on long stout stems characteristic of the true peony flowered type. Wonderful for cut flowers and a splendid keeper.

1140 Finest Mixed..... 1/2 oz. 40c; pkt. 15c

Special Aster Offer

Long Season Collection

1 Pkt. Early Dawn.....
1 Pkt. Early Royal Mixed.....
1 Pkt. Giant Single South-
cote Beauty..... } 30c

New Crested or Princess Asters

(Early Wilt Resistant)

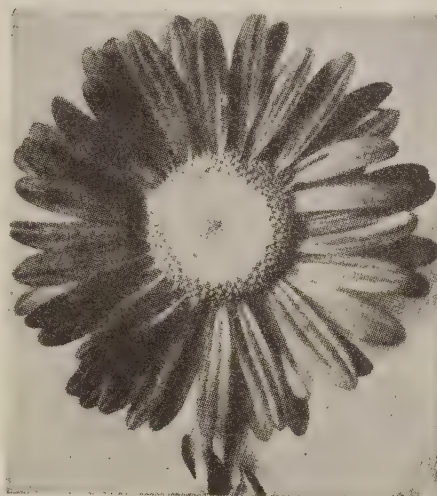
Height 2 ft.

Princess Asters have full, double crested centers of bright gold, surrounded by several rows of broad guard petals. Colors include lovely shades of pink, salmon-rose, scarlet and yellow. Flowers are 3 to 3 1/2 inches across, come into bloom early, and have exceptional keeping qualities.

1155 Princess Finest Mixed...
..... Pkt. 15c

Aster "Navy Blue"

1145 NAVY BLUE. 20 in. True navy blue, deep and velvety—a color rarely found in flowers. Extra-early, with large blooms, 4 inches across, and long, narrow petals, twisted and interlaced...
..... Pkt. 15c



The rich coloring of Giant Single Asters is accentuated with golden yellow centers.

Southcote Beauty

(Early Midseason) Height 2 ft.

Like exquisite colored daisies, with their golden yellow centers and perfectly formed petals. Unrivalled by any other aster for cutting and house decoration.

1159 Giant Single Southcote Beauty,
Finest Mixed..... Pkt. 15c

Early Giant

(Wilt Resistant) Height 1 1/2-2 ft.

The most outstanding new development in Asters. The flowers are full petaled and very large, 4 to 5 inches across. Plants are 1 1/2 to 2 feet tall, with branches low on central spike. Stems are strong and heavy, ideal for cutting. This exceptional new class comes into bloom during early to mid August.

1115 Light Blue. An exquisite shade.

1116 Peach Blossom. White flushed pink.

1117 Rose Marie. Rich rose.

Any of the above, pkt. 20c
3 pkts. (1 of each) for 50c



Sunshine Asters

(Midseason)

The most beautiful and artistic of all Asters. The flowers have cushion centers of light yellow tubular petals, surrounded by broad guard petals of pink, rose, blue or lavender, producing a wonderful color contrast, and presenting an airy, lace-like effect. Individual blooms are 4 to 5 inches in diameter, on long, stiff stems. Plants 3 ft. high.

1169 Giant California Sunshine, Finest Mixed.
..... Pkt. 20c

Brilliant Red Asters

(Early Midseason, Wilt Resistant)

1174 SCARLET KING. Brilliant scarlet flowers, large and very double..... Pkt. 15c

1175 HEART OF FRANCE. Rich deep glowing red Pkt. 15c

For Sturdier Plants and Larger, Healthier Blooms

Disinfect your Aster Seed with SEMESAN just before sowing. Use a pinch to a packet of seed, mix well, thoroughly coating seed, and sow. SEMESAN is a simple easy-to-use dust treatment.

1/3 oz. packet 10c



Early Giant Rose Marie, a lovely rose-pink.

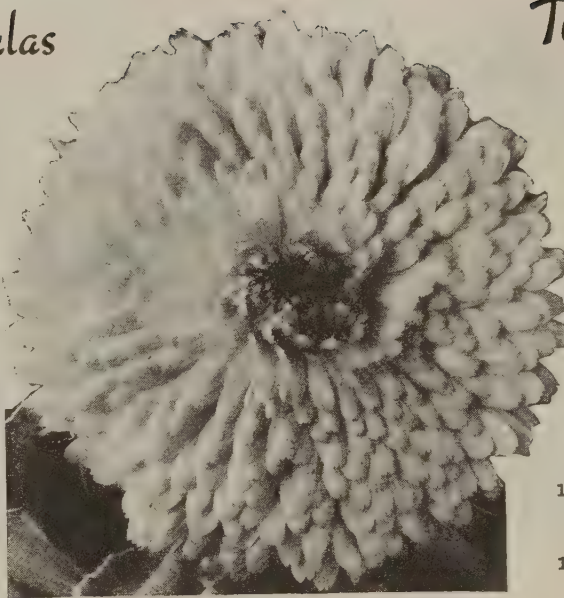
Two new Sunflowers for your garden—"Sun Gold" to add brilliance, "Dwarf Maroon Prince" to use for cutting. See page 57.

Giant Double Calendulas

Scotch or Pot Marigold (Annual)

These brilliant flowers bloom from early summer to frost, and thrive even in poor soil. The plants are bushy and grow about 2 feet high.

- 1212 **YELLOW COLOSSAL.** (New.) Clear bright yellow flowers, $4\frac{1}{2}$ inches across. Blooms profusely for 3 months.....Pkt. 10c
- 1213 **GLOWING GOLD.** (New.) Loose, fluffy petals, giving the appearance of a golden ball.....Pkt. 10c
- 1214 **CHRYSANTHA or SUNSHINE.** Bright buttercup-yellow; long curling petals..... $\frac{1}{8}$ oz. 40c; pkt. 10c
- 1217 **CAMPFIRE** (Sensation). Extra large orange flowers with an iridescent scarlet sheen..... $\frac{1}{8}$ oz. 50c; pkt. 10c
- 1219 **DOUBLE ART SHADES.** Pastel hues of apricot, cream, and orange..... $\frac{1}{8}$ oz. 50c; pkt. 15c



Calendula "Campfire" is a brilliant orange



Candytuft, Giant Hyacinth-Flowered

California Poppies

Eschscholtzia (Annual)

Only those who have used California Poppies for summer bedding have any idea of the gorgeous effect produced by their brilliant colors. They thrive in loose sandy soil, in full sun and bloom early and continuously.

- 1220 **RAMONA HYBRIDS FINEST MIXED.** Height 12 in. This lovely type has extremely large flowers, beautifully frilled and incurved, giving a semi-double appearance. The colors are rich and brilliant and include coppery gold with pink shadings, golden bronze and bronze-red.....Pkt. 10c

Calliopsis Golden Wave (Annual)

- 1222 Height 2-3 ft. Plants are much branched and produce an abundance of showy flowers in various shades of crimson, orange and gold, all summer.....Pkt. 10c

Canterbury Bells →

Campanula Biennial

Plants form perfect pyramids about 2 feet high and produce beautiful bell-shaped flowers on long upright stems. Bloom in early summer.

- 1225 **SINGLE CANTERBURY BELLS.** Mixed colors, rose, blue and white.....Pkt. 10c
- 1226 **DOUBLE CANTERBURY BELLS.** Mixed colors, pink, blue and white.....Pkt. 10c
- 1232 **CUP AND SAUCER CANTERBURY BELLS.** Its very large calyx is the same color as the corolla, giving the flower the appearance of a cup and saucer. Mixed colors.....Pkt. 10c

Beautiful "Cup and Saucer" Canterbury Bells.

Two Popular Climbers

CANARY BIRD VINE (Annual Climber)

1235 Height 15-20 ft. Dainty cut foliage and curious bird-like blossoms of a clear canary yellow. Fine for covering stumps, trellises or fences....Pkt. 10c

CARDINAL CLIMBER (Annual)

1245 Height 20 ft. A strong rapid-growing climber with fine fern-like foliage and clusters of bright red flowers from mid-summer to frost. Very showy. Pkt. 10c

Carnation (Annual)

Few flowers surpass in fragrance the spicily-scented Carnation. Given an early start indoors or in a hotbed, Double Carnations like those grown by florists, can be grown in the outdoor garden. Plants lifted in fall, cut back and potted, will bloom again indoors.

1251 **GIANT ENFANT DE NICE.** Flowers are 2-3 inches in diameter on long, strong stems. Finest mixed colors....Pkt. 20c

1252 **GIANT DOUBLE MARGUERITE.** Blooms abundantly within five months from planting. Finest mixture.....Pkt. 15c

CASTOR BEAN, see Ricinus, page 56.

← Candytuft (Annual)

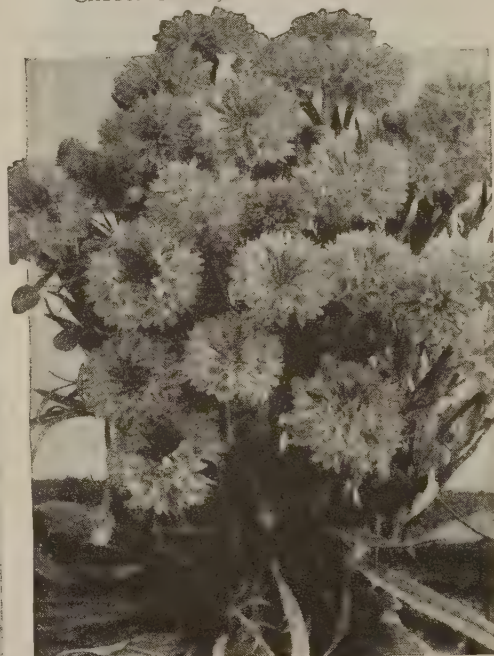
Dwarf plants admirably adapted to beds, edgings, pots and borders. Will thrive anywhere, and blooms profusely throughout the summer.

1240 **GIANT HYACINTH-FLOWERED.** 1 ft. Snow-white flowers..... $\frac{1}{8}$ oz. 25c; pkt. 10c

1242 **FINEST MIXED.** $\frac{1}{8}$ oz. 25c; pkt. 10c

PERENNIAL CANDYTUFT

1243 **SEMPERVIRENS.** 1 ft. Dwarf evergreen plants covered with white flowers in spring and early summer. Fine for borders and the rock garden..... $\frac{1}{8}$ oz. 60c; pkt. 15c



CENTAUREA JUBILEE GEM has vivid dark blue flowers.

Centaurea^{Cyanus} (Annual)

Bachelor's Button—Cornflower

These new improved varieties have larger flowers, stiffer stems and more vivid coloring. They grow about 30 inches tall; bloom all summer, and make fine cut flowers.

1260 **RED BOY.** 1261 **SNOWMAN.**
1262 **BLUE BOY.**

Any of above, $\frac{1}{4}$ oz. 35c; pkt. 10c.

1268 **JUBILEE GEM.** 1 ft. This dwarf variety forms a compact plant, literally covered with vivid deep blue flowers....Pkt. 15c

1269 **DOUBLE MIXED.** $\frac{1}{4}$ oz. 35c; pkt. 10c

Giant Sweet Sultans, 2½ ft.

Beautiful, fluffy, double flowers on long smooth stems. Fragrant and extra-fine for cutting.

1277 **AMERICANA** (Basket Flower). Lavender.

1278 **IMPERIALIS FINEST MIXED.**

Any of above, $\frac{1}{4}$ oz. 35c; pkt. 10c

Want a quick-growing vine that thrives in full sun? Try Canary Bird Vine—the bright yellow flowers have fringed wings that resemble little golden birds in flight.

New Cleome

Giant Pink Queen ➡

1302 **CLEOME, PINK QUEEN.** 4 ft. Huge heads of delightful and refreshing true pink. The large flower bracts turn to white before falling, giving the appearance of a white collar with a pink cap. Grows 4 ft. tall and over, and blooms from July until frost. The foliage is airy and well-branched. An effective background plant...Pkt. 20c

← Cathedral Bells

COBRAE SCANDENS (Annual Climber)

1303 Height 15-20 ft. A rapid-growing, handsome climber with beautiful bell-shaped flowers 1½ inches across and 2 inches long. Flowers open a clear green, gradually changing to deep violet blue. Particularly desirable for covering arbors, walls, etc.....Pkt. 10c

*Give flowers a good start
with SEMESAN Pkt. 10c*



Dainty long-spurred Columbines
grow well in half-shade



From a distance the flower heads of Cleome
look like pink butterflies.

← Columbine Aquilegia (Perennial)

1305 **DOBBIE'S IMPERIAL HYBRIDS.** Height 2 ft. Splendid plants for partially shaded positions in the border or rockery. Foliage is graceful and fern-like; the dainty long-spurred flowers are produced in strong brilliant shades of blue, lavender, pink and yellow.....Pkt. 15c

Cynoglossum Chinese Forget-Me-Not (Annual)

1318 **DWARF FIRMAMENT.** 16 in. An improved bush form, with bright indigo-blue flowers all summer long. The plants are easy to grow and thrive even in dry, poor soil.....Pkt. 10c

Cypress Vine (Annual Climber)

1319 Height 10-15 ft. A good vine for training on a light ornamental trellis. Bears a profusion of star-shaped scarlet and white blossoms from midsummer to frost. Fine fern-like foliage.....Pkt. 10c

Early Giant Flowering Cosmos

1310 **EARLY FLOWERING MAMMOTH MIXED.** 4-6 ft. Contains soft shades of crimson, pink and lavender.....Pkt. 10c

1311 **ORANGE RUFFLES.** 3 ft. Semi-double flowers of flaming orange, with an airy butterfly-like beauty. Blooms early and continuously for 6 weeks.....Pkt. 15c

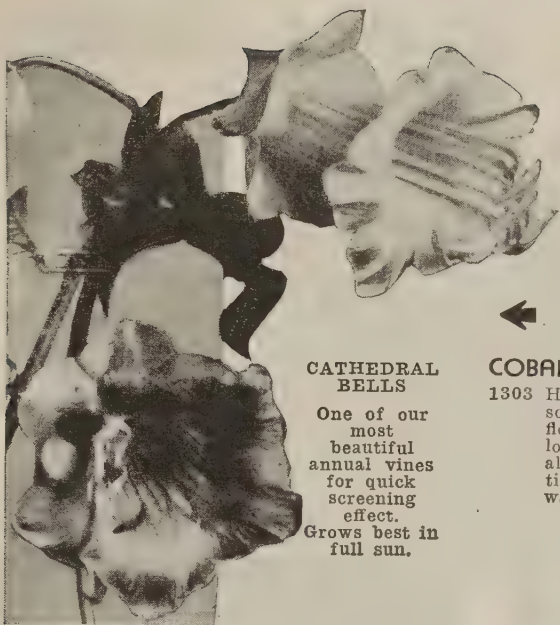
1313 **YELLOW FLARE.** 3 ft. A pure golden yellow Cosmos. Exquisite when used with Orange Ruffles in flower arrangements.....Pkt. 15c

1314 **SENSATION.** Giant Early Strain. 4 ft. Mammoth flowers, 4-5 inches across, with heavy fluted petals. Colors: rose-pink, dazzling scarlet and white with a satin sheen.....Pkt. 15c

1315 **EXTRA EARLY DOUBLE CRESTED.** 4 ft. As large as the popular Sensation Cosmos, but with a 2-inch crested center making it appear even larger. Colors are white, pink and red..Pkt. 20c



Flowers of Cosmos Sensation are 4 inches
across with heavy fluted petals.



CATHEDRAL BELLS

One of our most beautiful annual vines for quick screening effect. Grows best in full sun.

Cockscomb

Celosia (Annual)

1255 **CRISTATA.** Height 12-18 in. Large ornamental flower-heads frilled and corrugated like a cock's comb. Mixed colors.....Pkt. 10c

1258 **PLUMOSA.** Height 3½ ft. Forms pyramidal branching plants with large feathery flower-heads, ranging from orange to deep crimson. Mixed colors.....Pkt. 10c

1259 **PYRAMIDALIS (Flame of Fire).** Height 1½ ft. Candelabra-shaped plants, each branch terminating in a flower-head of fiery scarlet.....Pkt. 20c

Chrysanthemum

1285 **ANNUAL CHRYSANTHEMUMS.** Height 20 in. Daisy-like flowers in attractive color combinations of yellow, brown, red, rose and white. Useful for mass color effects and excellent for cutting. Bloom all summer.....½ oz. 25c; pkt. 10c

1290 **SHASTA DAISY (Perennial).** Height 2 ft. June-August. Bears large white flowers on long stems; invaluable for cutting. Very free flowering.....Pkt. 10c

Clarkia (Annual)

1300 **ELEGANS DOUBLE MIXED.** Height 2 ft. Plants send up a mass of slender, upright branches, with each branch covered for almost its entire length with charming rosette-like flowers, resembling sprays of Flowering Almond....Pkt. 10c

Double Coreopsis

(Perennial)

Height 2 ft. Large orange-yellow flowers on long graceful stems. Bloom profusely during the summer and fall, affording a constant supply of cut flowers.

1309 **DOUBLE SUNBURST.** This new form is very popular, the extra petalage adding a further charm to the immense golden yellow flowers.....Pkt. 20c

The Flower Educator

Contains over 600 pages and hundreds of illustrations including full page plates of flowers. Printed in large type, easy to read. Flexible art binding.

Complete Pocket Size **\$1.50**
Reference Index ppd.

The shrub-like plants of Giant Pink Cleome make an excellent background for the flower border. They grow quickly and bloom from early July to frost.

Delphiniums Tall and Stately

HARDY LARKSPUR (Perennial)

- 1333 **BELLAMOSUM**. Deep blue.....Pkt. 15c
- 1334 **BLACKMORE AND LANGDON HYBRIDS**. Enormous flowers in delicate shades of blue, mauve and pink, with bees of contrasting colors.....Pkt. 35c
- 1335 **GOLD MEDAL HYBRIDS**. Color from pale lavender to deep blue, with many double.....Pkt. 20c
- 1336 **WREXHAM HOLLYHOCK STRAIN**. Giant flowered strain with double blooms 1½ to 2 inches across, many of them bi-color.....Pkt. 35c
- 1337 **PACIFIC GIANT HYBRIDS**. Developed on the Pacific Coast. Florets 2 inches across, on 5 ft. stems, slender and wiry. Mildew resistant. Blue shades.....Pkt. 50c

For Annual Larkspur see page 53.

Dianthus or Pinks

China Pinks (Annual)

Easily raised from seed, they bloom from early summer until frost.

- 1340 **HEDDENSIS, WESTWOOD BEAUTY**. 16 in. A new, improved Dianthus, with brilliant red flowers, varying from crimson to scarlet, some attractively edged white.....Pkt. 20c
- 1341 **HEDDEWIGI LACINIATUS, DOUBLE MIXED**. 1 ft. Brilliant colors, many striped and mottled.....Pkt. 10c
- 1348 **HEDDEWIGI LACINIATUS, SINGLE MIXED**. 1 ft. Very large fringed flowers ranging from white to deep crimson. Mixed colors.....¾ oz. 25c, pkt. 10c

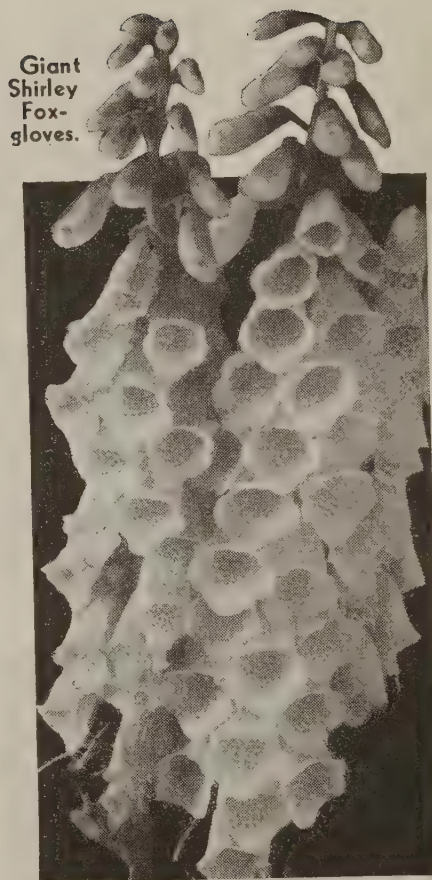
Didiscus

Blue Lace Flower (Annual)

- 1354 Height 2-3 ft. Clusters of lovely umbel-shaped flowers, 2 to 3 inches across are produced from July to frost. Color, an exquisite shade of clear lavender-blue. Fine for cutting.....Pkt. 10c



Gaillardia "Giant Hybrids"
unsurpassed in size and coloring.



The tall spikes of Foxgloves are found in every well planned border.

Foxglove or Digitalis

- 1355 **SHIRLEY HYBRIDS**. Height 5-6 ft. The flower-heads are over 3 feet long, closely set with big bell-shaped blossoms of white, rose and crimson with beautiful throat markings. Mixed colors.....Pkt. 15c
- FEVERFEW, see Matricaria, page 54.
- FORGET-ME-NOT, see Myosotis, page 54.

Gaillardias for All-Summer Bloom

Blanket Flower (Annual)

Brilliant and effective either for garden decoration or cutting. Gaillardias delight in a warm sunny location and light, open, well-drained soil. Sow the seed where they are to bloom.

- 1379 **INDIAN CHIEF**. 1 ft. Flowers are a glittering, metallic, bronze-red color with dark brown center.....¾ oz. 25c; pkt. 10c
- 1380 **LORENZIANA DOUBLE FINEST MIXED**. 18 in. Colors range from light lemon-yellow to deep orange or scarlet with striking bands and flecks of crimson.....¾ oz. 25c; pkt. 10c

Gaillardia Grandiflora (Perennial)

One of the few perennials that flowers continuously from June to October. They thrive in any position or soil and are perfectly hardy. Invaluable for cutting.

- 1381 **THE DAZZLER**. 2 ft. Large golden-yellow flowers with rich maroon centers.....Pkt. 20c
- 1382 **BURGUNDY**. 2 ft. Shining wine-red flowers, 2½ inches in diameter on long, stiff stems.....Pkt. 20c
- One packet each of above for 35c.
- 1384 **GIANT HYBRIDS**. 2 ft. Immense flowers in all of the lovely shades of orange, yellow and red, some measuring 4 inches across. The finest strain available.....Pkt. 15c

Dolichos Hyacinth Bean (Annual Climber)

- 1357 Height 10 ft. Large dark green leaves and erect racemes of purple and white flowers, followed by ornamental seed pods of a shining bronze-purple. Grows rapidly.....½ oz. 25c; pkt. 10c

Four O'Clocks Marvel of Peru (Annual)

- 1370 Height 2-3 ft. Erect, bushy plants with dense glossy foliage and hundreds of long-tubed, funnel-shaped flowers of white, yellow, crimson or striped. They remain closed until 4 o'clock in the afternoon when the plants become a glowing mass of color.....½ oz. 20c; pkt. 10c

Gomphrena Globe Amaranth (Annual)

- 1390 Height 18-24 in. Bushy plants with clover-like blossoms of purple-red, yellow, rose and white. Very attractive in winter bouquets. They should be cut before they are fully open.....Pkt. 10c



Brightly Colored Gourds for table decorations.

Gourds Small Fruited Ornamental (Annual Climber)

- 1393 **SMALL VARIETIES, MIXED**. 15-20 ft. Useful for covering arbors, fences, etc. The flowers are often beautiful, and the fruits are oddly shaped and quaintly marked and colored. They make unique table decorations and interesting toys for children.....¾ oz. 25c; pkt. 10c



Copper-red Gaillardia Indian Chief.



Annual Baby's Breath will add a charm to any bouquet of garden flowers.

Baby's Breath

Gypsophila (Perennial)

- 1410 **PACIFICA**. New rose-pink form, coming into bloom after the paniculata variety has passed.....Pkt. 25c
- 1415 **PANICULATA, DOUBLE SNOW WHITE**. 2-3 ft. An improved type, bearing masses of minute double white flowers. A charming plant in the garden and highly prized for cutting.....Pkt. 25c

ANNUAL GYPSOPHILA

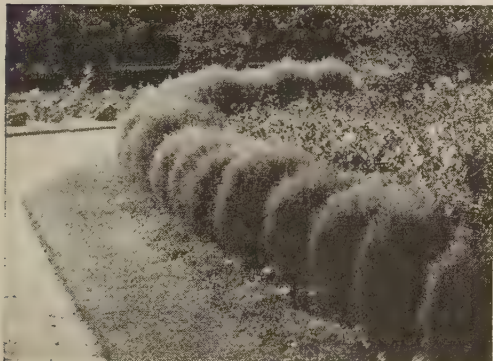
Graceful branching plants with clusters of delicate flowers about one-half inch across. Beautiful in bouquets with other flowers.

- 1416 **ELEGANS GRANDIFLORA ALBA**. 1½ ft. Large-flowering pure white..... ¼ oz. 25c; pkt. 10c
- 1417 **ELEGANS GRANDIFLORA ROSEA**. 1½ ft. Beautiful rose-pink. ¼ oz. 25c; pkt. 10c

HELIANTHUS, see Sunflower, page 57.

HELICHRYSUM, Everlasting or Strawflower (Annual)

- 1425 Height 2-3 ft. Large double flowers, 1-1½ in. across, are produced all summer. Colors range from yellow, orange, red and rose to white. Splendid for winter bouquets.....Pkt. 10c



Kochia may be clipped to form a perfect hedge.

KOCHIA, Summer Cypress (Annual)

- 1465 Height 2-2½ ft. Plants are erect, much-branched and densely pyramidal resembling small closely-sheared evergreens. Foliage is feathery soft bright green, turning to red in fall. ½ oz. 25c; pkt. 10c

Hollyhocks

Hollyhocks are most easily grown from seed sown in late June. Seedlings should be transplanted as soon as large enough to handle, for their taproots make large plants difficult to move, and usually result in injury to the root.

- 1436 **DOUBLE TRIUMPH**. 6-8 ft. Beautifully fringed rosette flowers in many new pastel shades and bi-color combinations..... ¼ oz. 60c; pkt. 15c
- 1437 **CHATER'S DOUBLE MIXED**. 6-8 ft. Extremely double flowers resembling small peonies with closely packed petals. Color range includes crimson, rose-pink, yellow, salmon and scarlet..... ¼ oz. 60c; pkt. 15c
- 1440 **ANNUAL INDIAN SPRING**. Blooms in 5 months from seed. Has double and semi-double fringed flowers in shades of pink to 4-5 ft. plants.....Pkt. 15c



Hardy Larkspur, see page 52.

GIANT IMPERIAL LARKSPUR with large individual blossoms sets closely on spikes.

Annual Larkspurs

Giant Imperial Double

A new strain, especially valuable for cutting. The spikes are heavily covered with fully double flowers; individual florets are large and closely placed on the stems. Height 3-4 feet.

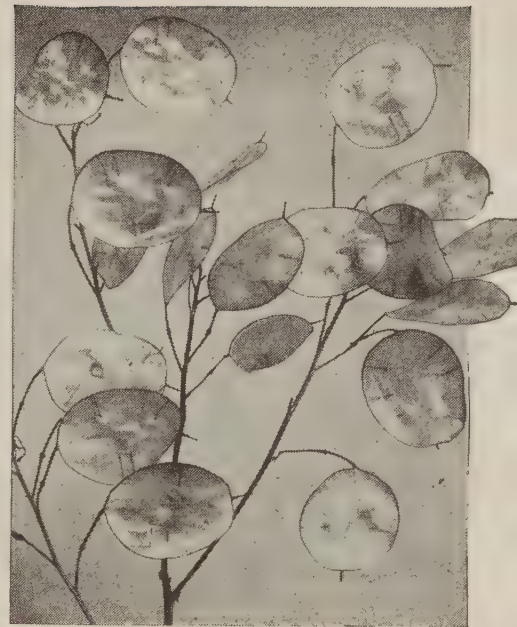
- 1470 **BLUE BELL**. Azure blue.
- 1471 **BLUE SPIRE**. Deep violet-blue.
- 1472 **DAZZLER**. Rich, lustrous scarlet.
- 1473 **MISS CALIFORNIA**. Salmon-rose.
- 1474 **WHITE SPIRE**. Dazzling pure white.
- 1475 **GIANT IMPERIAL MIXED**.

Any of the above, ¼ oz. 60c; pkt. 15c.
3 Packets (your choice) for 40c.

Lathyrus

Perennial Pea
(Perennial Climber) ➔

- 1480 **LATIFOLIUS**. 6-8 ft. A decorative vine for a trellis or fence. The flowers are borne in large clusters all summer, and are splendid for cutting. Mixed colors: rose, white and crimson. Once established, the roots should not be disturbed.....Pkt. 10c



The silvery seed pods of Lunaria are used in winter bouquets.

LOBELIA, Crystal Palace (Annual)

- 1489 Height 6 in. Plants form compact little bushes covered with brilliant, deep blue flowers throughout the summer. Desirable for edgings, bedding and pot culture.....Pkt. 10c

LUNARIA or Honesty (Biennial)

- 1490 Height 2 ft. Has purple flowers followed by shiny silvery seed pods. It is called "Honesty" because the seeds can be seen through the pods. Also known as St. Peter's Penny. Very attractive in winter bouquets combined with Physalis and other Everlastings.....Pkt. 10c

LUPINS, Hartwegii (Annual)

- 1493 Height 2 ft. Tall graceful spikes of pea-shaped flowers in delicate shades of blue, lavender, pink and white. If cut as they mature the plants continue to bloom.....Pkt. 10c



Lathyrus can be trained on posts, trellises or wires to fill in any gaps.

Plant a row of Four O'Clocks between your flower and vegetable garden—the plants make a neat low-growing hedge.

Marigolds in New Colors and Types

← Carnation
Flowered
Marigold

Marigolds are sun-loving plants, thriving in hot, dry locations. With their wide variations in height, color and form, they may be used to advantage in many parts of the garden.

Dwarf French Marigolds

For Borders, Pot Plants and Bedding.

- 1503 **SPRY.** 9 in. Flowers have a bright orange crested center with maroon outer petals. Plants are uniform, compact, early flowering.....Pkt. 15c
- 1504 **DWARF ROYAL SCOT ALL DOUBLE.** 10 in. This new strain is of dwarf bushy growth, with rich mahogany and gold flowers uniformly striped.....Pkt. 15c
- 1505 **DWARF DOUBLE BUTTERBALL.** 9 in. An exquisite little Marigold with 1½-inch canary-yellow blooms. Early and continuous flowering, excellent for edging or pot plants....Pkt. 15c



Morning Glory Cornell has flowers of intense carnelian-red, bordered white.

Morning Glories

Ipomea (Annual Climber)

- 1520 **PEARLY GATES.** Large satiny white flowers with cream shading in throat. The luxurious foliage sets off the flowers to best advantage and gives them a beautiful appearance.....Pkt. 15c
- 1523 **CORNELL.** Large flowers of an intense carnelian red, with a pure white border. The vines are strong and bloom profusely until killed by frosts.....Pkt. 15c
- 1524 **COLUMBIA.** Giant 3-inch trumpets of rich blue, edged bluish-white, with a red star.....Pkt. 15c
- 1525 **SCARLETT O'HARA.** A new color in Morning Glories. Rich wine-red or deep crimson. Very showy. For early flowering, the seed should be started in pots in March.....Pkt. 15c
- 1526 **EARLY FLOWERING HEAVENLY-BLUE.** Vines are a mass of lovely sky-blue flowers, 2½-3 inches across, from early summer to frost.....Pkt. 15c
- 1527 **SELECT MIXED.** Flowers are ruffled and fluted from throat to margin. Colors: red, rose, garnet, blue, purple, etc.....½ oz. 40c; pkt. 10c

Chrysanthemum-Flowered Marigolds

- 1495 **GOLDEN BEDDER.** 14 in. Very early. One of the most beautiful of all dwarf marigolds, with bright golden flowers 3 inches across. Plants are a mass of bloom for many weeks.....Pkt. 15c
- 1496 **MAMMOTH MUM.** 3 ft. Great fluffy light sulphur-yellow flowers, 3 inches across and 2½ inches deep. The plants are bushy, erect and strong and bloom early and profusely.....Pkt. 20c
- 1497 **GOLDSMITH.** 2 ft. Early flowering for Northern gardens. This is a beauty, with full double blooms of rich golden orange, 3 inches across. Almost a perfect ball in shape, the flowers are produced on stems of good cutting length....Pkt. 15c

Carnation Flowered Marigolds

- 1498 **MAYLING.** 2 ft. Named in honor of Mme. Chiang Kai-shek. The rich golden yellow frilled flowers grow 3 inches and more across. The petals are incurved practically their entire length and daintily fringed on the outer edges. Plants bloom early and profusely. The foliage is without odor.....Pkt. 20c
- 1499 **REAL GOLD.** 2 ft. This handsome golden orange Marigold has giant exhibition blooms, 4½ inches across, very deep and very double. Its richness of color and size make "Real Gold" outstanding in every way.....Pkt. 20c

Carnation Flowered Marigolds With Odorless Foliage

- 1500 **SPECIAL MIXTURE.** 1½-2½ ft. Deep orange, golden orange, golden yellow, canary-yellow and primrose flowers in a magnificent mixture. Fine for garden decoration and especially desirable for cutting as the foliage is odorless.....Pkt. 15c

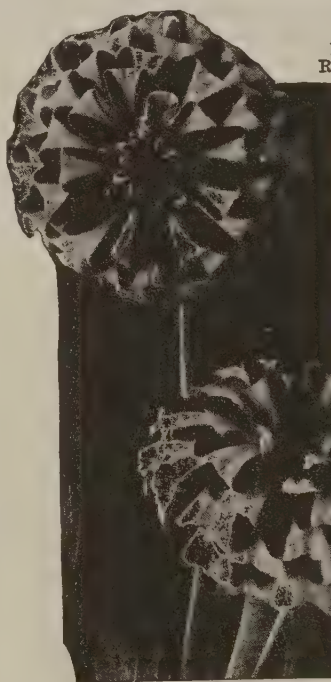
Double African Marigolds

- 1502 **FINEST MIXED VARIETIES.** 2½ ft. Immense ball-shaped, perfectly double blooms on long, stiff stems. Colors include canary-yellow, dazzling orange and rich golden yellow. They make a magnificent display in the garden and furnish flowers for cutting until frost...Pkt. 15c

Mammoth Marigold Collection

- | | | | |
|------|---|-------------|-----|
| One | } | MAMMOTH MUM | 45c |
| Pkt. | | MAYLING | |
| Each | | REAL GOLD | |

Marigold Border Collection		
One	SPRY	40c
Pkt.	BUTTERBALL	
Each	SUNKIST	



1504 **MARIGOLD ROYAL SCOT** Has velvety brown flowers striped golden-yellow

For Photo of New Marigold "Naughty Marietta" see page 48.

Old Glory Collection

- | | | | |
|------|---|-----------------|-----|
| One | } | Scarlett O'Hara | 40c |
| Pkt. | | Pearly Gates | |
| Each | | Heavenly Blue | |

Matricaria (Tender Perennial)

- 1512 **CAPENSIS.** 18-24 in. Plants are bushy in growth, with finely cut leaves and clusters of small, tightly double, white flowers. Excellent for pot plants, bedding and cutting.....Pkt. 10c

Mignonette (Annual)

- 1516 **MACHET.** 12-15 in. Immense compact spikes of blossoms with a delicate fragrant odor are produced throughout the summer and until late in the fall. Fine for cutting.....Pkt. 10c

Moss Rose, see Portulaca, page 56.

MOURNING BRIDE, see Scabiosa, page 57.

Myosotis Forget-Me-Not (Perennial)

- 1535 Height 4-9 in. Plants are of compact habit with large clusters of exquisite clear blue flowers. Flourish in moist shady positions. Require winter protection.....Pkt. 10c

Even a clothes pole puts on an air of gayety when dressed in Morning Glory vines, and the flowers provide a real feast for the eyes.

Brilliant New Petunias

Bedding Petunias

Dense bushy little plants, 8-12-inches high, literally covered with flowers all summer until killed by frost. Indispensable for borders, pots, rock gardens and bedding.

- 1640 **ADMIRAL**. Excels all other dwarf blue Petunias in its clear dark blue coloring and uniform habit of growth. Blooms profusely.....Pkt. 50c
- 1642 **RADIANCE**. Brilliant cerise-rose with a salmon undertone to remove all harshness. Blooms are 2½ inches across with a golden throat...Pkt. 20c
- 1645 **HOLLYWOOD STAR**. Distinctive five-pointed star-shaped flowers of deep rose-pink with a golden throat.Pkt. 20c
- 1646 **ENGLISH VIOLET**. An All-American Selection. It has the same beautiful color as English Violets. Flowers hold this uniform color from the time they open until the last bloom.....Pkt. 20c
- 1648 **MARS**. Uniform, deep rich crimson, with a velvety texture. Blooms average 3 inches.....Pkt. 25c
- 1649 **TOPAZ QUEEN**. Brilliant, deep rose-pink. Does not fade in the brightest sun. Extra dwarf, with large flowers.....Pkt. 25c
- 1651 **FINEST MIXED BEDDING PETUNIAS**. All colors. ½ oz. 60c, pkt. 10c

Washington Petunias

Ruffled & Frilled

Bushy little plants only 9 inches high. Just the thing for window boxes, pots and bedding.

1647 **GENERAL WASHINGTON**. The 3-inch trumpets are a rich velvety amaranth-red, with glistening reddish-black throat.

1650 **MARTHA WASHINGTON**. Large trumpets of blush-pink veined wine-red, and deepening to violet in center of flower.

Each, pkt. 35c, 2 pkts. for 60c

Giant Petunias

For Pot Plants or Bedding. Plants grow about 12 inches high, of bushy habit, with enormous flowers, 4 inches across.

- 1652 **KING HENRY**. Color a velvety blood-red. Plants of compact, globular habit, with giant single blooms on short stems.....Pkt. 25c
- 1653 **SETTING SUN**. A Giant Single Flowering Fringed Petunia. Forms compact bushes, 12 inches high, covered with fringed blossoms of bright rose-pink, measuring 3 inches across....Pkt. 35c
- 1654 **ELK'S PRIDE**. A Giant Single Petunia of exceptional beauty. The color is a deep, velvety purple. Plants are dwarf, compact and vigorous..Pkt. 25c
- 1655 **THEODOSIA**. A Giant Single Fringed Petunia of soft rose pink, with wide golden throat, delicately veined. Gracefully fringed and ruffled.....Pkt. 30c

A typical plant of Bedding Petunia. Note the well rounded bush form.



Sweet Scented Double Gleam Nasturtiums

Nasturtiums

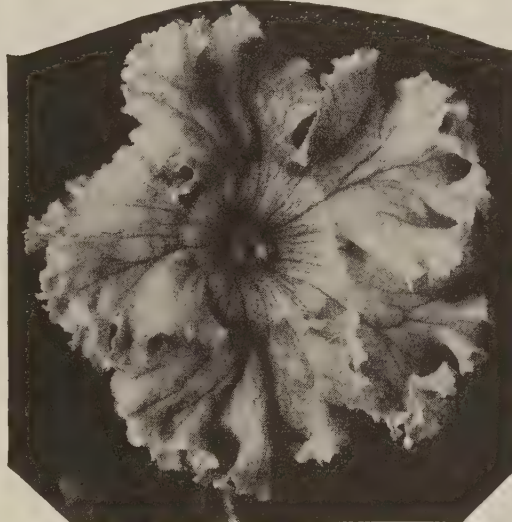
Will bloom most prolifically if given a rather poor soil and an open sunny position.

Double Gleam Type

- 1570 **GOLDEN GLEAM**. Fragrant golden-yellow flowers on long stems.
- 1571 **SCARLET GLEAM**. Fiery orange-scarlet flowers with ruffled petals.
- 1572 **DOUBLE GLORIOUS GLEAM HYBRIDS**. Gorgeously colored flowers of salmon, yellow, cream, orange, scarlet, maroon and rose shades.

Any of above, pkt. 15c

- 1573 **DWARF DOUBLE GEM MIXED**. Compact plants, ideal for edging. Semi-double, fragrant flowers in a bright range of colors.....Pkt. 15c
- 1574 **DWARF SINGLE MIXED**. 1 ft. Giant flowers in a great variety of gay color combinations and the brilliant self-colored sorts.....Oz. 25c; pkt. 10c
- 1575 **TALL GIANT FLOWERING MIXED**. Excellent for scrambling over sunny banks, stone walls or for covering bare spots in the rock garden.. Oz. 25c; pkt. 10c



Theodosia, a Giant Single Fringed Petunia of Soft Rose-Pink.

Balcony Petunias

Of graceful, trailing habit, this strain of Petunias was developed for use in porch and window boxes.

- 1656 **DEEP BLUE**. Deep violet-blue. Pkt. 15c
- 1657 **ROSE**. Brilliant rose.....Pkt. 15c
- 1658 **RED WONDER**. The brightest red.....Pkt. 20c
- 1659 **BLACK PRINCE**. Rich velvety red.....Pkt. 15c
- 1660 **STAR OF CALIFORNIA**. Crimson, with white star...Pkt. 15c

Garden Books

AUDEL'S GARDENERS' AND GROWERS' GUIDE

4 volumes, 1,700 pages, hundreds of illustrations. Tells how to prepare the soil, how to plant, grow and improve vegetables, fruits and flowers. Circular free.

Flexible Art Binding \$5.35 ppd.

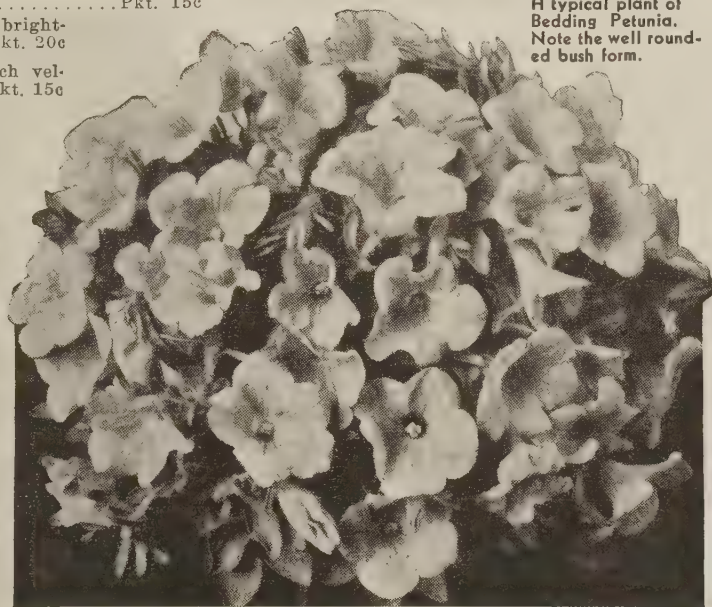


Nicotiana Flowering Tobacco (Annual)

- 1540 Height 2-3 ft. Plants are of branching habit, and bloom continuously from early summer until frost. The flowers resemble petunias, but have a longer tube. They open toward evening and emit a heavy fragrance. Hybrids mixed.....Pkt. 10c

Nigella Love-in-a-Mist (Annual)

- 1545 **MISS JEKYLL**. Height 18 in. Plants are compact and free-flowering with finely cut foliage and large semi-double flowers of a lovely cornflower-blue on long stemsPkt. 10c



You will like this border—Petunia "Mars" edged with Verbena "Venosa"—the color combination is rich and pleasing.

Giant Pansies

Pansy seed may be started indoors in February or in a cold frame in March, in carefully pulverized rich soil.

Transplant to open ground in May.

If flowers are picked regularly, the plants will continue to bloom until frost. Protect with a mulch of straw, in fall, and they will endure hard winters with perfect safety.

1620 **ENGLEMAN'S SPECIAL GIANT.** Selected to a strain of immense flowers from the old Scottish Show type. Bronze and reddish shades. Vigorous, compact and early flowering.....Pkt. 35c

1628 **ROGGI SWISS GIANTS MIXED.** Gigantic flowers of heavy texture on strong stems. The colors are choice and rare, surpassing in quality and range all other Swiss Giants.....Pkt. 35c



PANSY
PLANTS
on
Page 27.

1629 **MASTERPIECE OR RUFFLED PANSIES.** A remarkable strain of Giant Pansies with beautifully frilled petals, so full as to appear almost double. Rich colors, with dark velvety shades predominating.....Pkt. 25c

1631 **TRIMARDEAU MIXTURE.** A superior strain, with robust deep-rooting plants and flowers of mammoth size and great substance. Choice mixed colors..Pkt. 15c



Sow **PORTULACA** in low border edgings, between stepping stones and in the rock garden. It makes a brilliant floral carpet.

Annual Phlox

Drummond
Gigantea

Improved Annual Phlox rivals in size the hardy perennial varieties and is unsurpassed for massing and bedding. It provides an un-failing display of color and cut flowers from early July until well into October.

1666 **FINEST BEDDING MIXED.** 12 in.

1673 **STAR CHOICE MIXED.** 12 in.

Each of above, pkt. 15c, 2 pkts. for 25c.

PINKS; see Carnation, Dianthus and Sweet William.

Platycodon

Balloon Flower
(Perennial)

1679 **GRANDIFLORA BLUE.** Height 18-24 in. Handsome compact-growing plants, bearing an abundance of broad, bell-shaped blue flowers in July. The flowers when in bud have the appearance of inflated balloons.....Pkt. 10c

Pyrethrum

Painted Daisy
(Perennial)

Large daisy-like flowers on stiff, 2-foot stems. Come into bloom in June and continue through July. Prized for cutting because of their fine keeping qualities.

1726 **JAMES KELWAY.** Rich, velvety blood-red.....Pkt. 20c

1727 **ROBINSON'S HYBRIDS.** Includes a fine color range.....Pkt. 20c

Portulaca

Moss Rose
(Annual)

Portulacas thrive in a dry, sunny position where most other flowering plants would die of drought. They are but 4 inches high, of spreading habit and form a dense thick carpet. The glossy cup-shaped single blossoms and rose-like double flowers cover the plants and make a brilliant display all summer.

1711 **JEWEL.** A rare beauty, four times as large as the usual Portulaca flower. The color is a brilliant deep crimson, vivid and outstanding.....Pkt. 20c

1712 **SINGLE MIXED.**... 1/4 oz. 50c; pkt. 10c

1713 **DOUBLE MIXED.**... 1/4 oz. 75c; pkt. 15c

Ricinus

Castor Bean
(Annual)

1730 **RED SPIRE.** 6-8 ft. Foliage plants of luxuriant and rapid growth, valuable for backgrounds and screens, producing a rich tropical effect. The leaves are of enormous size, deeply lobed and conspicuously veined, dark green and bronze in color.....Oz. 50c; pkt. 10c



RUDBECKIA "STARLIGHT."

Gorgeous Poppies

ICELAND POPPIES (Nudicaule)
Perennial

To brighten the garden, you can make no better choice than the new improved Iceland Poppies. They bear immense flowers with broad, deeply fluted petals, giving a semi-double effect. Bloom freely the first year from seed if sown early.

1706 **GARTFORD GIANT ART SHADES.** 18 in. Exceptionally large flowers, fluted, and carried on long stems. The colors include lovely pastels.

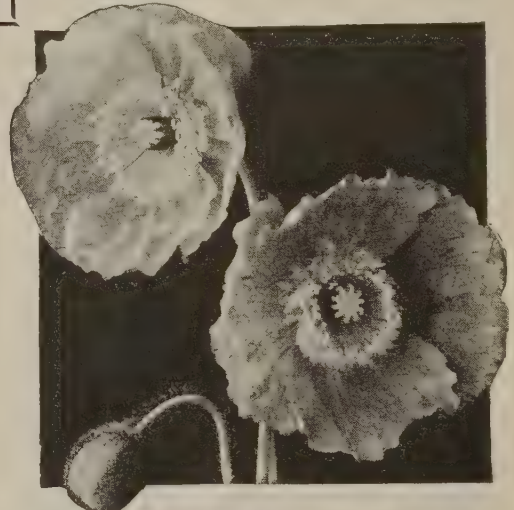
1707 **THE EMPEROR.** 18 in. Deep tangerine orange.

1709 **YELLOW WONDER (Amurense).** 18 in. Bright buttercup yellow. Heat and drought resistant.

Any of above, pkt. 20c; 3 pkts. for 50c

ORIENTAL POPPY Perennial

1710 Height 2-3 ft. For gorgeous coloring Oriental Poppies have few rivals among hardy plants. The flowers are often 6 inches across and are borne on tall stems. Produce a magnificent effect.....Pkt. 15c



ICELAND POPPY "EMPEROR."

Has silky-textured, fluted flowers of deep tangerine orange.

Annual Poppies

1691 **AMERICAN LEGION.** An improved variety of Flanders Poppy. Flowers are a brilliant orange-scarlet of enormous size, on long stout stems..... 1/4 oz. 25c; pkt. 10c

1692 **GIANT SHIRLEY (Silk or Ghost).** 1 ft. Beautiful satiny flowers, 4 inches across, with fluted, crinkled petals. Colors contain delicate shades of rose, apricot, salmon-pink and crimson with occasional blues. Foliage is hairy and finely cut. 1/2 oz. 40c; pkt. 10c

1695 **DOUBLE SHIRLEY POPPY, "Sweet Briar."** Deep rose-pink flowers, full and double. Resembles a large double Begonia.....Pkt. 10c

Rudbeckia

Coneflower
(Annual)

Thrives in Hot, Dry Locations

1715 **STARLIGHT.** 2 1/2 ft. Large-flowered, semi-double hybrids. The colors range from primrose-yellow to mahogany and bi-colors, with dark brown centers. Very attractive and long-lasting when cut. Plants are free-flowering when grown in full sun.....Pkt. 15c

The brilliant colors of Portulaca, combined with Ageratum and Sweet Alyssum make a superb edging for a sunny path or driveway.

New Double-Flowering Scabiosas

Pin-cushion Flower (Annual)

The new improved Scabiosas have large, cone-shaped flowers of great depth. Borne on long, graceful stems, they are exceedingly fine for cutting.

1752 **IMPERIAL GIANTS BLUE MOON.** Lavender-blue flowers with broad, frilly petals.....Pkt. 15c

1753 **PEACE.** Semi-tall pure white.....Pkt. 15c

1754 **BLUE COCKADE.** Pure deep azure blue.....Pkt. 15c

1757 **GIANT HYBRIDS MIXED.** Colors include shades of red, rose and blue..... $\frac{1}{4}$ oz. 60c; pkt. 15c

PERENNIAL SCABIOSA

Blue Bonnet (Caucasica)

1758 **GIANT HYBRIDS.** Height 18-24 in. Graceful flowers in delicate shades of blue and lavender, with fringed and ruffled petals. Plants require rich well-drained soil and prefer full sun.....Pkt. 20c

Rust-Resistant Snapdragons

Antirrhinum (Annual)

1765 **CALIFORNIA GIANT MIXED.** Developed by scientists of the University of California, this strain is resistant to rust. The seeds germinate better, the plants are more vigorous, the foliage clean, the flowers large and the colors exceptionally clear and beautiful. Height 2½ ft.....Pkt. 20c

1766 **GIANT MIXED SNAPDRAGONS.** Height 30 in..... $\frac{1}{2}$ oz. 50c; pkt. 10c

1767 **HALF DWARF SNAPDRAGONS.** Height 18 in..... $\frac{1}{2}$ oz. 50c; pkt. 10c

Salpiglossis

Painted Tongue or Velvet Flower (Annual)

1741 Height 2-2½ ft. Beautiful velvety petunia-like flowers, greatly prized for cutting. They range in color from various shades of purple and blue through red and yellow to creamy white, delicately veined and penciled with gold. Bloom from July to frost.....Pkt. 10c; 3 pkts. for 25c

Bright Salvias

Scarlet Sage (Annual)

Handsome summer and autumn-flowering annual with brilliant flowers; very effective for massing, bedding and cutting. Useful also for window box and pot plants.

1745 **SPLENDENS.** 2-3 ft. Plants are much branched with large spikes of bright scarlet flowers produced in profusion during the summer and fall..... $\frac{1}{2}$ oz. 60c; pkt. 15c

1746 **FIREBRAND (Harbinger).** 15 in. A true dwarf, large-flowering Salvia. The symmetrical plants are completely covered with long sprays of large brilliant scarlet flowers.....Pkt. 25c

1747 **FARINACEA BLUE BEDDER.** 2-3 ft. Long spikes of showy deep blue flowers, splendid for garden display and cutting. Can be dried and used as an everlasting.....Pkt. 20c

Scarlet Runner Bean

(Annual Climber)

1760 Grows 12 to 15 ft. high, with brilliant scarlet flowers followed by green shell beans excellent for table use..... $\frac{1}{2}$ lb. 45c; $\frac{1}{2}$ lb. 25c; pkt. 10c

Schizanthus

Butterfly Flower or Poor-man's Orchid (Annual)

1764 **GIANT-FLOWERING HYBRIDS MIXED.** 18 in. Exquisite, butterfly-like blossoms in many of the delicate colors and shadings found in orchids. A group of these plants is delightful in the garden, and makes a mass of wonderful coloring.....Pkt. 15c

SHASTA DAISY, see Chrysanthemum, page 51.

Statice Sea Lavender (Annual)

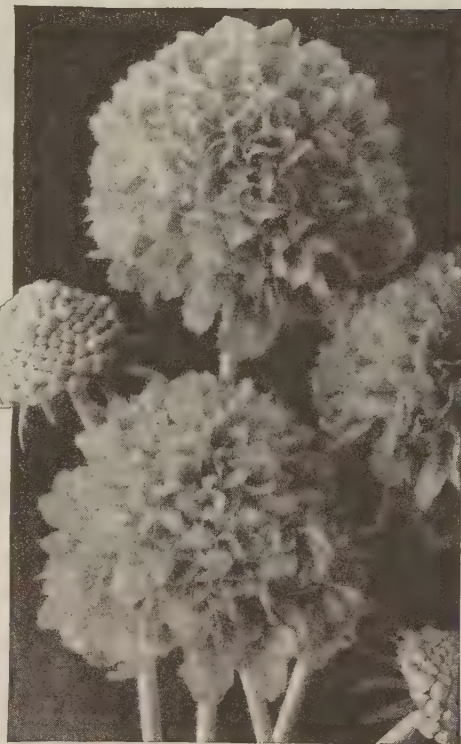
1769 **SINUATA.** 1-2 ft. Suitable for growing in rock gardens and charming when dried for winter bouquets. The flowers are produced in racemes on long, graceful stems. Colors: rose, blue and white; retains its true colors when dried.....Pkt. 10c

Stokesia Cornflower Aster (Perennial)

1780 **CYANEA.** 2 ft. One of the choicest flowers for the garden and indispensable for cutting. Plants are much branched and bear freely from July until frost, the handsome lavender-blue flowers which measure from 4 to 5 inches across. Of easy culture, succeeding in any open, sunny position.....Pkt. 15c



To have strong, thrifty plants and large flowers, sow seed of Sweet William every year.



Scabiosa "Imperial Giants Blue Moon"—new in form, with broad wavy petals.

Colorful Stocks Giliflower (Annual)

Their deliciously-scented flowers are borne on branching spikes on velvety-leaved plants. The secret of growing good Stocks in the garden is to start the seed early indoors, prick the seedlings into tiny pots, and keep them growing rapidly until they can be set outdoors in the richest possible soil.

1772 **DWARF TEN WEEKS.** 12 in. Large-flowering, double, fine for bedding. Finest mixed colors.....Pkt. 10c

1777 **GIANT IMPERIAL.** 24 in. Double. Given sufficient room, the plants form magnificent bushes with long, thick flower. Finest mixed colors.....Pkt. 15c

Sunflower Helianthus (Annual)

Grow them as a background for the vegetable garden. The new dwarf varieties make excellent cut flowers. Thin plants to 1½ ft. apart.

1830 **DWARF MAROON PRINCE.** 3 ft. The best red sunflower.....Pkt. 15c

1831 **SUN GOLD.** 4 ft. Brilliant golden yellow flowers, fully double.....Pkt. 15c

1832 **MAMMOTH RUSSIAN.** 8-10 ft. Huge flat flower heads grown for the seeds which are fed to parrots, poultry and birds. Planted in the poultry yard the plants furnish shade, and when planted in the vegetable garden the stalks will serve as poles for climbing or pole beans. Oz. 10c

SWEET ALYSSUM, see Alyssum, page 48.
SWEET SULTANS, see Centaurea, page 50.

Sweet William Dianthus Barbatus (Perennial)

One of our finest hardy garden plants, of easy culture and thriving in any good garden soil. Grow 12 to 18 inches high, with flowers in flat clusters on tall stiff stems.

1890 **SINGLE LARGE FLOWERED MIXED.**
1891 **DOUBLE LARGE FLOWERING MIXED.**

Each of the above, pkt. 10c.

A border of *Salvia* "Firebrand," edged with lavender and white *Alyssum*, will provide a brilliant long-season display.

Giant Sweet Peas

Early Spring-Flowering Spencer

Best for the North and Middle West, as they come into bloom a month earlier than the late varieties, and continue to bloom for a much longer period. Our leaflet, "How To Grow Sweet Peas," is free for the asking.

- 1834 American Beauty. Rich crimson-rose.
- 1835 Amethyst. Royal purple.
- 1836 Ball's Rose Improved. Deep rose-pink.
- 1837 Cascade. Large pure white.
- 1839 Laddie Improved. Light rose-pink.
- 1841 Florist Rose. Pure carmine-rose.
- 1843 Fragrance. Clear lavender.
- 1845 Daphne. Soft salmon-pink.
- 1847 Mariner. Clear marine-blue.
- 1848 Mars. Deep crimson.
- 1850 Treasure Island. Sparkling orange.
- 1851 Oriental. Deep cream.
- 1852 Othello. Maroon.
- 1854 Red Cross. Dazzling scarlet-cerise.

Your choice, any of the above, pkt. 15c;
7 pkts. for 75c.

Summer-Flowering Spencer

- 1857 Ruffled Blue. Medium blue.
- 1858 Bonnie Ruffles. Cream-pink.
- 1859 Ruffled Crimson. Rich crimson.
- 1860 Ruffled Crinkles. Coral-pink.
- 1861 Ruffled Purple. Rosy purple.
- 1862 Ruffled Rose. Pure rose.
- 1863 Royal Ruffles. Scarlet-cerise.
- 1864 Ruffled White. Pure white.

Any Summer-Flowering Spencers,
pkt. 15c.

- 1865 RAINBOW MIXED SPENCER. Giant Waved Spencer varieties in a complete color range 1/4 lb. \$1.00; oz. 30c; pkt. 10c
- 1875 EARLY FLOWERING SPENCER MIXED. Come into bloom a month earlier than other sorts.....Oz. 60c; pkt. 15c

Vivid Verbenas

Giant Hybrid (Annual)—Height 1 ft.

The semi-trailing plants are excellent for massing in beds, for edgings and for growing in porch and window boxes. They bloom continuously from June to frost and the giant trusses are lovely in bouquets.

- 1899 FLORADALE BEAUTY. Giant trusses. Shades from rose-pink to rose-red.....Pkt. 15c
- 1900 BLUE AND PURPLE SHADES.....Pkt. 10c
- 1905 VENOSA. The bright rosy purple flowers are borne in dense racemes and are invaluable for cuttingPkt. 10c
- 1907 CRIMSON GLOW. A pure glowing crimson without an eye.....Pkt. 15c
- 1908 GIANT HYBRID MIXED VERBENAS. This mixture includes shades of blue, lavender, purple, yellow, rose and scarlet. Will provide flowers for cutting all summer.....Pkt. 15c

Dwarf Compact Varieties—Height 7 in.

Compact in habit, continuous bloomers, adapted for bedding, borders and small gardens.

- 1910 WHITE BALL
- 1911 BLUE SENTINEL

Each of the above, pkt. 15c; 2 pkts. for 25c.



Viola Tufted Pansy (Perennial)

Closely related to pansies and violets. Violas make splendid edging plants for the border and rock garden. They are hardy and bloom continuously.

- 1919 FINEST MIXED. Includes lavender, orange, purple, blue and yellow....Pkt. 15c

Viscaria Rock Lychnis (Annual)

- 1921 DWARF FINEST MIXED. 1 ft. One of the most beautiful of our hardy annuals and one of the easiest to grow. Compact, bushy little plants, completely covered with dainty flowers resembling wild roses. The colors are fresh and brilliant. Viscaria is bright and effective for edging, pot culture and cutting....Pkt. 15c; 2 pkts. for 25c

Wild Cucumber

(Annual Climber)

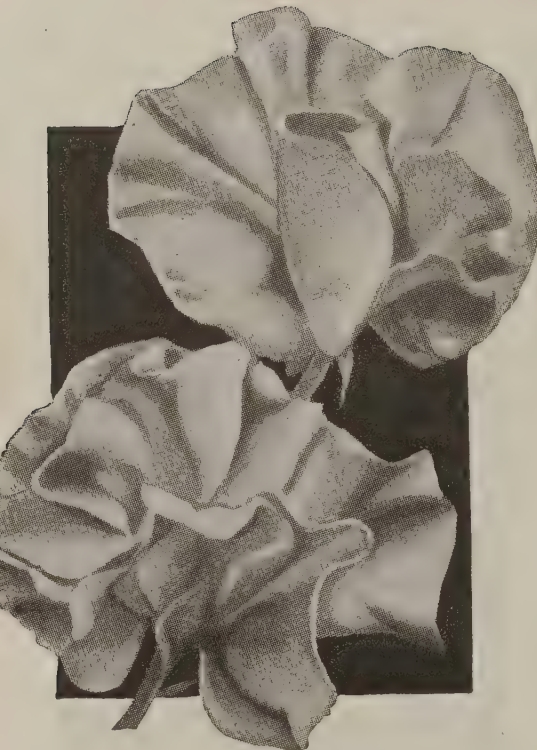
- 1925 ECHINOXYSTIS LOBATA. 20 ft. Grows rapidly and is thickly dotted with pretty white, fragrant flowers, followed by ornamental seed pods.....Oz. 25c; pkt. 10c



Mexicana or Miniature Zinnias (HAAGEANA)

This dainty little Zinnia should be in every garden. Arranged in low bowls for table decoration it makes the daintiest and most attractive bouquets imaginable. Also a splendid rock garden and border plant.

- 1979 MIXED COLORS. Flowers are double and semi-double. 1 1/2 inches across, and come in a most unusual color range—rose-tipped yellow, maroon-tipped cream, yellow-tipped red. Plants grow 10-15 inches high. Pkt. 10c; 3 pkts. for 25c.



Special

Ruffled Sweet Peas

- One Bonnie Ruffles. Cream-pink.
- Pkt. Ruffled Blue. Medium blue.
- Ruffled Crimson. Rich crimson.
- Each Ruffled Rose. Pure rose.
- Ruffled Purple. Rosy purple.

All 5 Pkts. 50c

For Perennial Pea see Lathyrus, page 53.



Verbenas make excellent window box and border plants as they bloom continuously from June to frost.

The purple flowers of Verbena Venosa are delightful combined with French Marigolds or Pink Petunias in window boxes and as an edging.

Sensational Zinnias for Your Garden



Pompon
Zinnias
for
Cut
Flowers
All
Summer

Giant Double Dahlia Flowered Zinnias

Height 3 ft.

Huge, double flowers, often measuring 4 inches in depth and from 4-5 inches across. The petals are broad, and closely imbricated resembling the show type of Dahlia. Flower in 60 days.

- 1931 WILL ROGERS. Brilliant scarlet.
- 1932 GOLDEN DAWN. Golden yellow.
- 1933 ILLUMINATION. Deep rose.
- 1934 CRIMSON MONARCH. Rich crimson.
- 1935 ORIOLE. Orange and gold bi-color.
- 1936 ROYAL PURPLE. Deep rich purple.
- 1938 ELDORADO. Salmon-apricot.

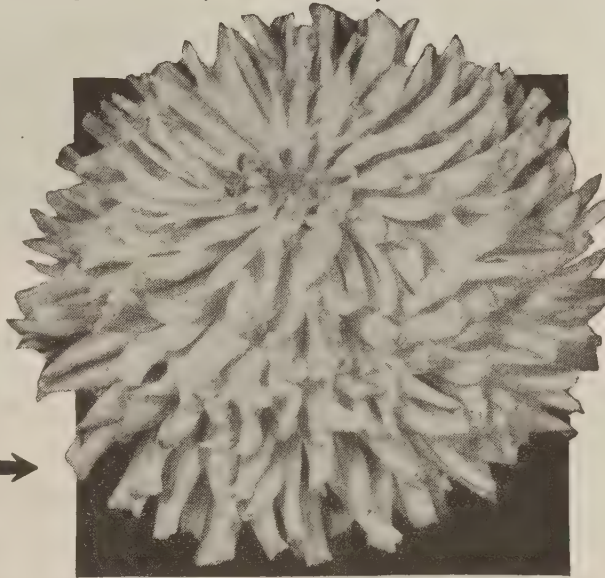
Any of above, pkt. 15c.

4 packets (your choice) for 50c.

1940 GIANT DAHLIA FLOWERED MIXED..... $\frac{1}{4}$ oz. 60c, pkt. 15c

Giants of a New Race ➔

1945. DAVID BURPEE. 4 ft. Giant flowers with attractively curled and quilled chrysanthemum-like petals. The color range is unusual, and includes cream, buff, rose, apricot, burnt orange, and some two-toned. All are interesting and full of surprises both in coloring and petal formation.....Pkt. 15c



David Burpee, the New Giant Zinnia

California Giant Zinnias

Height 3-4 ft.

Very large double flowers, averaging 5-6 inches in diameter when in full bloom. Somewhat flat in form, the flowers have a most graceful appearance and are splendid for cutting. Bloom in 60 days.

- 1960 GRENADIER. Extra fine dark red.
- 1961 MISS WILLMOTT. Soft, rich pink.
- 1962 LAVENDER GEM. Clear lavender.
- 1963 ROSE QUEEN. Rose with deep rose-center.
- 1964 LEMON QUEEN. Petals canary yellow on upper and cerise on lower side. Fragrant.

Any of above, pkt. 15c.

1965 CALIFORNIA GIANT MIXED.
..... $\frac{1}{4}$ oz. 60c, pkt. 15c

Fantasy, a Cactus Petaled Zinnia

1970 FANTASY. 2 $\frac{1}{2}$ -3 ft. The strikingly attractive, shaggy-petaled flowers resemble cactus dahlias. The color range includes the brightest shades of red, yellow and orange, as well as pastel pinks and cream. Picking the blooms freely will cause the plants to branch and produce more flowers.....Pkt. 15c

Dwarf Zinnias

Pompon or Baby Zinnias

(Lilliput.) Height 1 $\frac{1}{2}$ ft.

The plants form handsome little bushes, literally covered with tiny, very double flowers. They bloom all summer. Excellent for borders, bedding and cut flowers.

- 1972 DAINTY GEM. This new bi-colored Zinnia has center petals of bright rose-pink, and lower petals of flesh-pink. A "gem" for cutting. Blooms without let-up until frost.....Pkt. 15c
- 1973 BLACK RUBY. Rich, deep maroon.....Pkt. 10c
- 1974 VALENCIA. A deep burnt orange.....Pkt. 10c
- 1975 FINEST MIXED COLORS.
.....Pkt. 10c

Zinnia Linearis

- 1971 LINEARIS. 10 in. The flowers are 1 $\frac{1}{4}$ inches in diameter, with a single row of petals. Flowers open golden orange with each petal striped light green and changing to yellow as the flower develops. Early flowering, and if allowed plenty of space, plants spread over 2 square feet without growing taller than 10 inchesPkt. 15c



A Favorite Border Zinnia

- 1976 RED RIDING HOOD. 15 in. Compact, bushy little plants, bristling with miniature double flowers of deep scarlet. An effective border plant and one of the most popular Zinnias for cutting..... $\frac{1}{4}$ oz. 30c, pkt. 10c

Tom Thumb Zinnias

Grow Only Six Inches Tall!

- 1987 Tiny double flowers cover the compact plants all summer. Colors are red, orange, pink, yellow, white and pastel shades. For a low border, for potting or to use in low bowl arrangements, this little Zinnia is ideal.....Pkt. 15c

➔ Giant Crested Zinnias

1948 GIANT CRESTED. 3 ft. The flowers are 4-5 inches across, with full, rounded, cushion petals, surrounded by broad guard petals. The colors are bright and fresh and come in shades of rose, yellow, orange and crimson.....Pkt. 15c

Super Crown O'Gold Pastel Tints

1950. CROWN O'GOLD is a new form of Zinnia—a variation of the Giant Dahlia Flowered type. Its claim to distinction is the golden yellow touch at the base of each petal of the large flowers. Pastel Tints include shades of yellow, old gold, peach, pink and salmon.....Pkt. 20c



Zinnia Dahlia Flowered Will Rogers is bright scarlet

Giant ZINNIA COLLECTION

One Pkt. Each { Dahlia Flowered Mixed
Super Crown O'Gold
California Giant Mixed
David Burpee 50c

Dwarf ZINNIA COLLECTION

One Pkt. Each { Zinnia Mexicana
Red Riding Hood
Zinnia Linearis
Tom Thumb 45c

The dainty single flowers of *Viscaria* resemble wild roses—the colors are fresh and brilliant. Charming for borders and cutting.



Permanent PASTURE & Meadow Mixtures

Recommended By Minn. Experiment Station

And How to Sow Them

PASTURE—A Leading Postwar Money Maker

1. PASTURE supplies the best feed at lowest cost, with the least labor.
2. PASTURE produces milk and meat at lowest cost as animals gather their own feed and take advantage of sunshine and open air.
3. PASTURE yields greater net returns than other field crops, yet there's less risk from hail, lodging, plant diseases, etc.
4. PASTURE mixtures of legumes and grasses yield better than either seeded alone. They produce better stands and better variety of forage.
5. Take advantage of the opportunities offered by participating in the State Pasture Improvement Program sponsored by the University of Minnesota. Consult your County Agent for details. Here are the mixtures recommended by the Experiment Station.

SETTING the GRAIN DRILL for Mixtures Containing Brome Grass

Master Mixtures C and D: Setting drill at 3 in pecks of wheat, sows 18 lbs. per acre. Setting drill at 4 (pecks wheat), sows 26 lbs. per acre.

FOR LOW, WET GROUND, TRY:

Reed Canary Grass (where water stands most of year).
Brome Grass, Alsike, or White Clover (where water does not stand long).

HOW PASTURES PRODUCE THRUOUT SEASON

MIXTURE or SINGLE CROP	May	June	July	Aug.	Sept.	Oct.
Permanent Pasture: Ky. Bluegrass, White Clover						
Master Mixture A " " E						
Master Mixture C " " D						
Reed Canary Grass on low land						
Winter Rye						
Oats or other small grain						
Sudan Grass						
Second-growth Alfalfa						
Master Mixture H Annual Hog Pasture						
Master Timothy & Alsike Mix. (20-25% Alsike) (30-35% Alsike)						

See Blue Figure Price List in Front of Catalog

Master Mixture A

A Good Producer on Heavy Soils

A profitable long rotation mixture suited for hay first year or two, then for pasture. After second year Bluegrass and White Clover predominate. Well adapted to heavy, productive soils. Does well in southeastern, east central, and northeastern sections of Minnesota and similar regions. Sow 14 lbs. per acre.

Approximate contents:

Med. Red Clover 29% Timothy37%
Alsike Clover....22% Ky. Bluegrass... 5%
White Clover.... 7%
Gov't. pays you: \$2.00 per acre (Practice 18)

Master Mixture C

One Acre Provides for One Cow

An excellent long rotation combination. May be used for hay for a year, and then pastured. Will greatly outyield either Alfalfa or Brome grown alone. Very well suited to northwestern, west central, southwestern Minnesota and similar regions. One acre will provide excellent pasture for one cow, six to seven sheep, or thirty to thirty-five pigs. If soil shows an acid reaction, should be limed before seeding. Sow 18 to 20 lbs. per acre.

Approximate contents:

Alfalfa29% Timothy12%
Brome35% Sweet Clover...24%
(Gov't. pays you: 25c per pound (Practice 19))

Master Mixture D

Does Well on Sandy Type Soils

A very outstanding long rotation mixture, well suited to productive sandy soils. May be used for hay first year, and then for pasture. After first year Alfalfa and Brome will predominate. Well suited to southwestern, west central, central and southeastern Minnesota and similar regions. Only a half acre to one acre will easily support one cow or six to seven sheep. Soils showing an acid reaction should be limed before seeding. Sow 15 lbs. per acre.

Approximate contents:

Alfalfa43% Timothy14%
Brome Grass....43%
Gov't. pays you: \$3.00 per acre (Practice 18)
Gov't. pays you: 25c per pound (Practice 19)

Master Mixture E

Economical Short Rotation Mixture

An excellent short rotation combination, inexpensive, well suited for hay or pasture. Adapted to southeastern, east central, and northeastern Minnesota and similar regions. Three-fourths to one and one-fourth acres will carry one cow or six to seven sheep, and one acre will carry twenty to twenty-five pigs. Sow 12 lbs. per acre.

Approximate contents:

Medium Red Clover.....33%
Alsike17% Timothy50%
Gov't. pays you: 25c per pound (Practice 19)

Master Mixture H

Annual Hog Pasture

An excellent supplementary spring pasture, productive for about six weeks. Should be seeded early. One-half acre will carry one cow or six to seven sheep, or one acre will carry twenty-five to thirty pigs. Prof. Ferrin of Animal Husbandry Division, University of Minnesota, considers this mixture highly profitable. Sow 20 lbs. per acre.

Approximate contents:

Dwarf Essex Rape 40% Oats.....60%
See Blue Figure Price List.

Timothy Alsike Mixture

Permanent, Productive, Profitable

A popular, inexpensive, short rotation mixture that performs well on either low acid soils, or on sandy soils. This mixture produces better than either crop seeded alone. Well adapted in most all sections. Sow 12 lbs. per acre.

Offered in two grades:

Rich grade contains 30-35% Alsike. || Standard grade contains 20-25% Alsike.

Gov't. pays you: 10c per pound (Practice 19)

HARDY GRASSES and How to Sow Them



Brome Grass makes a good hay crop or pasture. Valuable on hillsides, ditches or banks to prevent soil washing.

Brome Grass *Bromus Inermis*

Becoming important as a hardy hay and pasture grass and in combination with other grasses. Also called Smooth Brome Grass.

This vigorous, hardy perennial with strong, creeping roots, makes excellent hay and pasture on poor, dry soil or on moist, low ground that is flooded at times. Valuable on hillsides and terraces to keep soil from washing away. It starts early, two or three weeks before other grasses, remains green until November, and stands close cropping.

It grows two to three feet high, yielding two to four tons of palatable hay per acre. Cut for hay when in full bloom. Also a profitable seed crop.

Seeding with a grain drill is best as seed should be covered. Sow 18 to 20 lbs. per acre in rows six inches apart and $\frac{1}{2}$ to 1 inch deep. To sow 18 lbs. per acre, set drill at "12" (in pecks of wheat), and for 20 lbs., at "12 $\frac{1}{2}$." Extra help is needed to keep seed moving freely through the drill. Price: 5 lbs. \$2.10, postpaid. For larger quantities see Blue Figure Price List.

New Lincoln Brome Grass

Lincoln Brome Grass was introduced in 1942 by Nebraska Experiment Station. Developed from certain old fields, believed to be from seed of Hungarian origin. The oldest fields were traced to seedings made in 1898. Only fields with suitable history and performance were accepted for foundation seed. Lincoln Brome Grass is a large, aggressive, high-yielding grass which forms a good sod. Because of its size and potential yield, it requires a readily available supply of nitrogen, a limiting factor after several years of growth, and on soils of low fertility. It tolerates drouth and heat, has strong seedling vigor, and is easier to establish on critical planting sites than ordinary brome. Seed yields of 500 pounds or more per acre were reported from good soils, and yields of 300 pounds or more, are average.

Central and southern Minnesota tests show Lincoln is easier to establish, has greater persistence, and will produce about 1,000 pounds more forage per acre than Canadian seed of Northern origin. Lincoln was placed on 1946 Recommended List of Minn. Experiment Station. Seed supply limited—order early! Price: 5 lbs. \$2.25, postpaid. See Blue Figure Price List.

Meadow Fescue

This hardy western grass stands more abuse than Timothy and other grasses and will stand close cropping, drought and unfavorable soil conditions. Meadow Fescue grows two to three feet high and produces a very leafy undergrowth. In sowing alone, use 20 to 25 pounds per acre. Price: 5 lbs. \$2.50, postpaid. See Blue Figure Price List.

REED CANARY

(*Phalaris*)

This Peat and Swamp Land Wonder Grass has reclaimed many worthless swamps and is making real profits for hundreds of farmers. It does well in boggy soils, swamps and marshes.

Four to Six Tons of Hay Per Acre

The hay (of high feeding value) is relished by all livestock. One acre will pasture three to four dairy cows from early spring until fall. Close grazing is best, except in fall. For hay, cut when heads first appear. Then feeding value is highest.

This hardy perennial grass will thrive until broken up, and can be easily controlled by plowing. Seedlings and plants are cold resistant. Heads appear early in June and ripen four weeks later. Plants grow four to six feet high with broad, light green leaves. Underground stems rapidly form a tough sod that holds up hay-making machinery.

How To Grow the Crop

Prepare a good seed bed. Fall plowing allows early spring seeding. The seed will germinate in water, but if covered by soil underneath the water, it will not grow until the water is drained off.

Rate of Seeding

Broadcast 6 to 7 lbs. per acre; drilled, 2 to 3 lbs. per acre in 16 to 18-inch rows. Use a packer on peat after seeding.

Sow early in spring so seedlings become established before weeds start. On weedy

5 Lbs. Reed Canary Grass for \$3.75 Postpaid Quantity Prices on Blue Figure List



After Harvesting Reed Canary Seed, a Hay Crop Can Be Cut Immediately.

land, seed late in June or early July, disking up to this time, to kill weeds. If difficult to get on land in spring, seed in August or October.

Crested Wheat Grass

The Ideal Dry Land Pasture Grass

This hardy drought-resistant perennial bunch grass has a longer productive period than Slender Wheat Grass or *Bromus Inermis*. Minnesota Experiment Station trials proved Crested Wheat and Brome the two most drought-resistant grasses, and Alfalfa the most drought-resistant legume.

Its extensive root system permits an early and rapid growth. It becomes dormant during extremely hot, dry periods, but resumes growth in early fall, continuing very late. It grows at low temperatures and utilizes the soil moisture to check other grasses and weeds where moisture is limited. In semi-arid regions—Kansas, Nebraska, Montana, Wyoming and the Dakotas, this grass does best although it thrives anywhere. After hard use as sheep pasture, it comes right up again. Crested Wheat Grass produces 400 lbs. of seed per acre under dry conditions on two-year-old fields. Seed is in good demand.

It's Easy to Seed Crested Wheat

Seeding with a grain drill is best as seed should be covered. Sow 10 to 12 lbs. per acre in rows six inches apart, and $\frac{1}{2}$ to $\frac{3}{4}$ inch deep. To sow 10 lbs. per acre, set drill at "2" (in pecks of wheat), and for 12 lbs., set at "2 $\frac{1}{4}$." Well cleaned, heavy seed such as we offer, moves freely through the drill. See Blue Figure List.

Red Top

A hardy perennial grass found almost everywhere, but predominating on low, marshy ground, where it forms luxuriant growth. It grows 2 to 5 feet high, depending on soil and climatic conditions, with creeping roots, which enable it to grow on very wet and even very dry soil where other grasses grow but sparsely. It makes good pasture, and fair hay, if cut early, but the matured plants are wiry and coarse. Grows best with other grasses and clover. Price: 5 lbs. \$2.10, postpaid.

For quantities see Blue Figure Price List.

Kentucky Blue Grass

This famous grass does well almost everywhere on soil that is fairly rich, moist and moderately well drained. Blue Grass is the best of all grasses for lawns. Price: 5 lbs. \$7.35, postpaid. See Blue Figure Price List.

Timothy

A hardy perennial resistant to both cold and drought—it is best adapted for sowing with Clovers which supply nitrogen to the soil and increase the vigor of the Timothy. It may also be sown with grains as a nurse crop. The soil must be well pulverized and the seed slightly covered. Do not cut too early or pasture too late in the fall after the hay is cut. Timothy produces 1 $\frac{1}{2}$ to 3 tons of hay per acre and should be cut at flowering time. Sow 15 to 20 pounds per acre alone; with Clover, 10 to 12 pounds per acre. See Blue Figure Price List.

Cyclone Hand Seeder only

\$3.50

POSTPAID



This simple, light, strong, hand seeder sows timothy, clover, millet, and grass seeds, as well as flax, wheat, rye, oats, buckwheat, turnips, and fertilizers perfectly even, in any quantity, from one quart to three bushels per acre. Canvas bag holds one-half bushel seed. Shipping weight, 4 pounds. Price: \$3.35, not prepaid.

HARDY NORTHERN GROWN ALFALFA SEED



LOOK FOR THIS TAG
ON EVERY BAG—IT'S
YOUR PROTECTION

We emphasize the importance of knowing where your Alfalfa and other Grass Seeds were grown. Cheaper, unadapted seeds should be avoided because they are more expensive in the long run, and not sufficiently hardy to withstand our northern winters.

Alfalfa Seed obtained from growers or shippers should be identified by the verified origin tags—this is your protection against mixtures, blends and unadapted seed.

As Verified Origin Seedsmen, any Alfalfas that we send you will be sealed and tagged, either with U. S. Verified Origin Certificates, or with certificate seal from the state in which it is grown.

About Hard Seeds:

Hard seeds are live seeds which are slow to absorb moisture and do not sprout within five or six days in a laboratory. There is not much delay in germination of hard alfalfa seeds. After sowing in spring, some germinate in two weeks—others in four, six, or more weeks. Usually all will sprout long before growing season ends. Up to 50% of seeds may be hard without reducing final stand of spring or early summer sown alfalfa, provided over 12 lbs. per acre are seeded. In fact, if properly seeded (not too deep), moderate delays in germination may thicken the stand by the end of season, especially if losses occurred earlier from frost, drought, insects, or other hazards. Thus hard alfalfa seeds have an insurance value, and should not be scarified.

VARIEGATED ALFALFA From Unregistered Northern Fields

Equal to Registered strains for hardiness and hay production, and offered at a great saving in price.

Variiegated Alfalfa is of a well known type with blossoms having a color range of white, yellow and purple. It is highly recommended but no definite records have been kept, and the fields therefore cannot qualify for registration. It has shown itself to be completely hardy in the most severe climates of Minnesota, Dakotas and Montana, and can be recommended as being very desirable for seeding in any part of the northern United States, where winter hardiness is essential. See Blue Figure List.

DAKOTA NO. 12

Dakota or Montana Grown

This is the most commonly grown variety in Minnesota, Dakotas and Montana. It has given the best of results on all types of soil and under all climatic conditions. Our seed stocks come from fields that have been in alfalfa many years and the plants which endure the extremes of hot summers, severe winters and dry, high altitudes are thoroughly hardy. The performance of this variety has made it extremely popular in the Midwest and East. See Blue Figure Price List.

Nebraska Grown

Nebraska alfalfa is classified as hardy northern alfalfa, and commanded the same northern ceiling price as Montana alfalfa. Nebraska alfalfa is recommended by Wisconsin Experiment Station. The U. S. D. A. reports hardy northern common strains, from Nebraska, the Dakotas, and Montana, have produced almost as well as Grimm, and have proved about as cold resistant as Grimm in controlled freezing tests. We offer premium grade Nebraska grown Dakota No. 12 Alfalfa, U. S. Verified Origin. See Blue Figure Price List.



GRIMM ALFALFA

Originated in Carver County, Minnesota. A very hardy, time-tried variety, tested thoroughly throughout the U. S. and Canada. It has many lateral or branching roots which are not found in common alfalfas, and has large spreading crowns. It appears to grow better where there is a hardpan subsoil, than many other varieties. The root system undoubtedly plays a big part in its hardiness, enabling it to withstand soil heaving, freezing and thawing better than varieties having only a single taproot. The blossoms are variegated from white and yellow to deep purple.

Grimm Alfalfa produced in Minnesota, the Dakotas, Montana and Idaho, is known to be very hardy. Montana Grimm is grown in the dryland areas and is able to withstand severe drought as well as cold. See Blue Figure Price List.

LADAK ALFALFA Wilt and Drought Resistant

Introduced from the mountain regions of northern India by U. S. D. A. Showed no winterkilling for ten years at Havre, Montana. Ladak proved so outstanding that other varieties of alfalfa could not compete with it for winter hardiness.

Ladak is quite resistant to the wilt disease which has been causing such great losses in the hay-producing sections. It produces a larger first cutting than any other alfalfa and this means a larger tonnage per acre under all conditions.

It is particularly well adapted to regions where only one or two crops are produced each year because of short growing seasons or where hot, dry summers prevail. Ladak continues to grow and produces a good crop of hay when other varieties are practically at a standstill. The hay is very leafy and of high feeding value and is of exceptionally high quality.

Ladak has a large branching root system similar to that of Grimm or Cossack. Seed supply very limited.

See Blue Figure Price List. Write for special free circular on Ladak Alfalfa.

COSSACK ALFALFA

Cossack Alfalfa was brought over from Siberia by Prof. Hansen of the South Dakota Experiment Station some years ago. This strain, under observance for five years in Russia, during which time not a single plant winterkilled, was proven to be absolutely hardy.

In recent years, the demand for Cossack has been increasing and there never has been sufficient seed to take care of all requirements.

Cossack Alfalfa produces a somewhat finer hay than many of the other varieties and is equally as hardy as Grimm.

Cossack Alfalfa seems to withstand intense cold, heat and drought equally well. The flowers, like those of Grimm, have a great range of colors, white, purple, yellow, striped, etc. We advise sowing 15 lbs. per acre. See Blue Figure Price List.

RANGER ALFALFA Wilt & Disease Resistant

Here's the new synthetic variety you have read about. Developed by U. S. D. A. and Nebraska's Experiment Station. The result of compositing five strains from Cossack, Turkestan and Ladak parentage. Ranger has high resistance to bacterial wilt and other diseases. It is winter hardy, and has variegated blossoms, with some yellow flowers. In seed production, Ranger equals Grimm, Cossack and Baltic, and surpasses Turkestan. Ranger is well adapted in northern states, particularly where bacterial wilt reduces stand. Grimm, Ladak or Cossack will yield about as much hay as Ranger where wilt is not troublesome, but Ranger will outyield these varieties wherever wilt becomes a factor. Bacterial wilt is becoming more serious every year in many northern states. Recommended by Minnesota and all other northern Experiment Stations.

About California Certified Seed:

The Minnesota and Wisconsin Experiment Stations, and the U. S. D. A. report that Ranger is such a recent variety, that the amount of natural selection occurring in such a limited time, would not modify the variety. Therefore these authorities agree that the use of California Certified Ranger Alfalfa Seed for northern areas would be entirely satisfactory. Genuine Ranger Seed is extremely scarce. Order early.



Northern Grown Clover Seed



There is much complaint of worn-out soils, weeds and unprofitable crops, from those who once secured bountiful yields when the land was new. Those who have used Clover regularly in the cropping system, have no such complaints. Clovers have beneficial action on the soil and may be seeded with practically all kinds of grains. Clovers also serve as outstanding hay and pasture crops. Clovers have a heavy root system that adds nitrogen to the soil and leaves vegetable matter and fertility when it dies or when plowed under. Clover should be cut for hay as soon as the first blossoms begin to turn brown. This will result in the greatest yield of palatable hay.

MEDIUM RED CLOVER

Medium Red Clover fits better into crop rotations than any other legume. It will increase the yield of succeeding crops, besides furnishing many tons of hay of high protein content. The first crop is usually cut for hay, before it comes into full bloom. The second crop may be cut for hay or seed or turned under, to fertilize the soil.

Red Clover is a biennial which means that it will grow for two seasons only and then must be reseeded. It is adapted to any well drained soil free from acidity and is better for general northwest conditions than any other clover. It furnishes luxuriant pasture and hay for cattle but is not quite so good for horses.

Sow Red Clover at the rate of 10 lbs. per acre with small grain or flax. Use about one-half or two-thirds of a normal seeding of grain or flax so as not to smother the clover. We use a clover seed attachment to the grain drill, sowing the seed ahead of the drills and cover it lightly with a harrow. See Blue Figure Price List.

MAMMOTH RED CLOVER

Extremely hardy, and valuable for fertilizing poor soil which is too low and heavy for growing Red Clover. It makes the best permanent hog pastures, seldom freezing out, and produces a large crop of hay, as much as 3 to 5 tons to the acre. Sow 5 to 6 lbs. per acre, with small grain, for plowing under. For a hay crop, sow 8 to 12 lbs. per acre. Grows on acid soil where Medium Red and Alfalfa fail. Yields again as much as Medium Red Clover, though the hay is rather coarse.

See Blue Figure Price List for Quotations on All Farm Seeds.

ALSIKE CLOVER

Alsiike Clover has the same soil-building properties as Red Clover, storing nitrogen in the soil, thereby increasing the yields of succeeding grain and corn crops from 25 to 50%. It is a true hardy perennial, with fiber instead of tap roots, and is not injured by thawing and freezing.

Alsiike can be sown on soil that is slightly acid or sour, where lime cannot be applied, and where other clover or alfalfa will not grow. It can be sown on heavy, wet, or low soil that sometimes becomes waterlogged, and also endures drought well.

It makes better hay than Red Clover, because of its fine smooth leafy foliage. Its feeding value is nearly equal to that of alfalfa. It makes fine pasture, as it is extremely hardy.

The seed of Alsiike is very fine, therefore, only 7 or 8 pounds per acre are required. As a seed crop, it is often more profitable than Red Clover. It is cut for seed when two-thirds of the heads are ripe.

Alsiike Clover has its place in the crop rotation the same as Red Clover and for best results is usually reseeded at the end of two years' growth. See Blue Figure Price List.

WHITE CLOVER

Best for lawns and pastures. White Clover is sown mostly in mixture with other grasses, especially with Blue Grass, for lawns, golf grounds, also for pastures for sheep and cattle. It thrives best in moist soil containing lime and considerable humus, but is also grown on sandy soil which is not too loose and dry. For lawns sow 5 to 6 lbs. mixed with grass seeds, to the acre. Price: 1/2 lb. 75c, lb. \$1.40, 5 lbs. \$6.75, prepaid. See Blue Figure Price List.

New Disease-Resistant MIDLAND RED CLOVER

Here's the remarkable new red clover that averaged 2 1/2 tons of hay per acre. Ordinary red clover averages 1 1/2 tons per acre. New Midland is well adapted to the winter conditions of the Medium Red Clover Belt—it has proved itself perfectly hardy in the North. Midland has high resistance to Northern Anthracnose and crown rot. These diseases are reducing yields in many sections. Midland has excellent growth characteristics and was accepted for registration by the American Society of Agronomy.

Midland is the result of 13 years of breeding, testing, and increasing by the cooperative efforts of Experiment Stations in Montana, Idaho, Colorado, Washington, Oregon, Utah, Iowa, Illinois, Indiana, and Ohio, and U.S.D.A. It was developed as a composite of four old strains from the Mid-West. See Blue Figure Price List.



Your Money Can Buy No Finer Seed Than Master Farmer Red Clover.

FREE BULLETIN:

"AAA PAYMENTS FOR 1947." Tells what government payments these Clovers, Alfalfas, Grasses and Mixtures will earn for you in North Central Region. Write for it.

NEW LADINO CLOVER

You've read about this outstanding new pasture and hay crop in recent magazines. (See Country Gentleman, Sept., 1946.) Ladino clover is a giant form of common white clover. It is a rapid growing perennial which spreads much like strawberries by producing fleshy creeping stems. Short tap roots develop beneath the crowns of the plants, and numerous fibrous roots are commonly produced at the nodes or joints of the creeping stems.

Under favorable conditions a single plant may produce six to ten or more strawberry-like surface runners, which, by the end of the year, form a dense interlocking growth with nearby plants.

Ladino grows 10 to 14 inches tall, but under favorable soil and climatic conditions, plants often grow 15 to 20 inches tall.

Outstanding Advantages:

(1) Ladino is a perennial legume which thrives under some conditions where alfalfa fails, and even where red clover is not at its best. Ladino appears suitable for low, level, moist, fertile fields on which alfalfa is at a disadvantage.

(2) It competes well with, and stimulates the growth of, such grasses as brome, timothy, and orchard grass. Moreover, it can be used successfully in mixtures containing alfalfa and red clover, and helps fill in the gaps when these legumes thin out.

(3) University of Wisconsin tests show that livestock like Ladino even better than brome grass. Chemical analysis show that Ladino on a dry matter basis not only beats all the common forages, but is even better than wheat, bran, or alfalfa meal. When 4 to 5 inches tall, analysis showed 25.6% protein content for Ladino. When more nearly mature, or 10 to 15 inches tall, it still carried 23.4% protein. This compares with 15% protein for good alfalfa hay.

Grasses such as timothy or brome grass, grown with Ladino clover, reduce the danger of bloat, neutralize the excessive succulence and laxative effect of pure stands of Ladino, and aid in mowing and curing as hay.

Furthermore, Ladino clover seeded with grasses, is less likely to be injured from excessive cold or alternate thawing and freezing, than when grown alone.

The following mixtures and seeding rates per acre are suggested:

For fertile, cultivated land with poor surface drainage.

(A) Ladino Clover 1 to 2 pounds
Red Clover 4 pounds
Timothy 4 pounds

(B) Ladino Clover 1 to 2 pounds
Alsiike Clover 2 pounds
Timothy 4 pounds

(C) Ladino Clover 2 pounds
Brome Grass 6 to 8 pounds

For well drained fertile soils well supplied with moisture.

(D) Ladino Clover 1 pound
Alfalfa 8 to 10 pounds
Brome Grass 6 to 8 pounds

(E) Ladino Clover 1 pound
Alfalfa 6 to 8 pounds
Red Clover 3 to 4 pounds

Brome Grass 6 to 8 pounds

Plant shallow in a firm, well prepared seed bed just as early in the spring as possible. Companion crops which ripen early—seeded at moderate rates—may be used without much danger to the new seedlings.

While Ladino Clover is an excellent source of high quality protein hay and silage, its greatest value undoubtedly is as pasture. The succulent, highly nutritious forage which it produces, is exceedingly palatable at all stages of growth, to all classes of livestock. Best production is obtained (and the life of established stands is prolonged) when Ladino Clover is permitted to make a good growth, and then is grazed down to a height of 4 to 5 inches. Close and continuous grazing should be avoided.

Seed of Ladino Clover cannot be distinguished from common white clover. Insist on our fine quality, pure stocks of Oregon Blue Tag Certified Ladino. Per acre seed costs are economical at the low seeding rates. See Blue Figure List.

Sweet Clover

Enrich Your Land—Make Cheap Hay

Sweet Clover cannot be surpassed for soil improvement due to its rapidity of growth, large tonnage produced and its comparatively low seed cost.

Sweet Clover as a Hay or Pasture Crop

Sweet Clover is a leading crop in the United States. As a biennial legume, it fits in with any crop rotation, besides yielding a very large return of hay and pasture. Sweet Clover may grow one to three feet the first season and may be clipped for hay or pastured lightly if it makes a good growth. During the second year it grows very dense and rapidly and if cut for hay, it should be done early in the season, before the blossoms appear and the stems become woody.

Cut Sweet Clover six to eight inches above the ground. Allow the hay to wilt a few hours, then place in small cocks until it is dry enough to stack. One acre furnishes pasture for two to four cows throughout the season. Cattle rarely bloat on it.

As a Soil Builder and Weed Control

Sweet Clover grows on clay, sandy, alkaline, or gumbo soil. It prevents drifting of shifting sandy soils. The hardpan subsoil is loosened by the heavy penetrating roots, allowing the necessary aeration and depositing large quantities of humus and nitrogen. Sweet Clover is a rank, dense grower of great value in exterminating weeds such as quack grass, thistle, etc.

Use 15 lbs. of scarified seed per acre with a nurse crop of one-half the usual seeding of grain or 28 to 35 lbs. of flax per acre. Firm the seed bed well after planting. Inoculate with Nitragin.



Biennial Sweet Clover

Because white and yellow blossom Sweet Clover Seed has become so mixed in seed production areas, it is impossible to offer straight White Blossom or pure Yellow Blossom Sweet Clover Seed and still meet requirements of the Federal Seed Act.

Therefore, all sweet clover will be sold merely as Biennial Sweet Clover. However, in ordering, if you will state your preference of either White or Yellow, we will do our best to select lots which will come as close to your preference as possible. In other words, if you prefer White Blossom, the seed will probably be from 50% to 75% White, and the balance Yellow Blossom.

Characteristics of Biennial Types

Tall, White Blossom: Tall growing and productive. Has a two weeks' longer pasture season than yellow blossom.

Yellow Blossom: A more prostrate, lower growing type, about two weeks earlier than white blossom and adapted to drier areas.

New Madrid Sweet Clover

Madrid is a variety of Yellow Blossom Sweet Clover introduced from Madrid Botanical Gardens, in Spain.

Madrid, is biennial in growth and yellow flowered. When compared with other varieties and strains of Yellow Blossom Sweet Clover, Madrid's first year's growth shows exceptional early seedling vigor, medium height but somewhat decumbent, with foliage resistant to fall frost. The second year's growth is leafy, upright, of medium height, and slightly later in maturity. Seed production is heavy and of sufficient earliness to escape the hazard of drought, common during the summer months in the Great Plains. Extensive yield trials show significantly greater yields of both hay and pasture than either common biennial yellow or white sweet clover. Seed is scarce, so order early. Accepted for Registration by the American Society of Agronomy in 1943. See Blue Figure Price List.

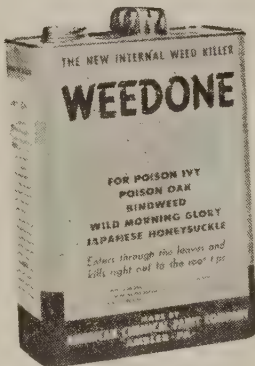
Hubam Annual Sweet Clover

An annual, white, resembling the biennial white in appearance, but making no resting buds, and producing seed the season of sowing. When a catch crop is wanted, especially when the field is to be Fall plowed, it is useful.

See Blue Figure Price List.

It's Still the Best!

The Original
2-4D
WEED KILLER
You've read about



Now you can kill Bindweed and Thistles in grain or corn fields — without damage to the crop! Kill Dandelion and Plantain without killing lawn grass! Leading magazines describe the remarkable effects of WEEDONE on the country's most pestiferous weeds. Destroy weeds easily, safely, cheaply, and completely — down to the root tips. WEEDONE does not cause prolonged sterilizing of soil, does not leave poison residue on plants — does not kill lawn grass, grain or corn plants — it kills the entire weed — root and all!

Simply mix WEEDONE with water and spray on foliage. But insist on the original and most effective 2-4D formula, described under the trade name "WEEDONE" in "Country Gentleman," "Better Homes & Gardens," and other magazine articles. Accept no substitutes! Ask for leaflet.

NEW, LOW 1947 PRICES:

6 oz. can (for 5 gal. spray) postpaid \$0.75
Quart can (for 25 gal. spray) postpaid 2.50
1 gal. can (for 100 gal. spray) postpaid 7.50
5 gal. can (for 500 gal. spray) express prepaid30.00
54 gallons, freight prepaid.....270.00

INOCULATE YOUR LEGUME SEEDS

Alfalfas Clovers Soy Beans **NITRAGIN** Vetches Peas Beans

BUILD UP YOUR SOIL Inoculate Your Legumes With NITRAGIN
Inoculate your Legume seeds even tho planted on fields that have been inoculated before. Field tests have shown that better crops are harvested when Legume seeds are inoculated even when planted on fields where inoculated seeds of the same Legume crops had grown the previous year.

1947 NITRAGIN INOCULATION PRICES

When Ordering, ALWAYS State Name of Seed

ALFALFA
Sweet, Bur, Hubam Clovers
Size Retail
1 bu. ea.....\$.50
2½ bu. ea.....1.00

CLOVERS
Red, Alsike, Crimson,
White and Ladino
1 bu. ea.....\$.50
2½ bu. ea.....1.00

PEAS (All Varieties)
VETCHES (All Varieties)

100 lb. size (Inoculates up to 100 lbs.) ea.....\$.50
1200 lb. size ea.....5.70 (12-100 lb. size cans)

BEANS—Navy, Pinto, Wax, String, Kidney, Gr. Northern
1 bu. ea.....\$.35

LESPEDEZA—Hulled or Unhulled
100 lb. size (Inoculates up to 100 lbs. seed)\$.50

NITRAGIN—Oldest and Most Widely Used Inoculator in America

PEANUTS, LIMA BEANS, COW PEAS

Size Retail
Small (Inoculates up to 120 lbs. seed)\$.30
5 bu. ea......55
25 bu. (one can) ea. 2.50
30 bu. (one ctn.) ea. 3.25 (Contains 6-5 bu. cans)

SOYBEANS (All Varieties, Including Edible)
Small (Inoculates up to 120 lbs. seed)\$.30
5 bu. ea......55
25 bu. (one can) ea. 2.50
30 bu. (one ctn.) ea. 3.25 (Contains 6-5 bu. cans)

LUPINES (All Varieties)
100 lb. size (Inoculates up to 100 lbs. seed)\$.50

GARDEN SIZE
Garden Peas and Beans Sweet Peas, Lupines and Edible Soybeans
Enough for 8 lbs. seed Retail Price 10c each.

Extra Profit From Grain Crops

Treat your Seed with Ceresan!

Six to 18% bigger yields of grain crops obtained when seed wheat, oats, and barley were treated with Improved Ceresan!



Ceresan controls various smuts, bunts, root rots, and other diseases which are spreading at such an alarming rate, that they now cost Northwest farmers an annual loss running into millions of dollars!

Boost your yields — improve stand and quality by this simple dust treatment which costs but a few cents an acre (2½ cents to treat a bushel of seed grain or flax.)

It's easy to apply with a home-made treater or by the simple shovel method. Measuring spoon included in each can. Improved Ceresan is a dry powder—no wet and swollen grain to handle—does not affect planting rate or cause trouble in the drill. Can be applied to well-cured seed 6 months before planting if desired.

½ Ounce Treats One Bushel of Grains, Millets and Flax.

IMPROVED CERESAN PRICES:

1-lb. Can (Treats 32 Bu.) Postpaid.....85c
4-lb. Can (Treats 128 Bu.) Nppd.....\$2.70
8-lb. Can (Treats 256 Bu.) Nppd.....5.40

NEW & BETTER SEED GRAINS for the NORTH

Oats for the North

VICLAND OATS

Originated from a cross between Victoria and Richland and introduced in 1940 by Wisconsin's Experiment Station. Vicland is an early-maturing, open-panicked, yellow-grained oat with high weight per bushel. It has short straw, and is as resistant to lodging, or more so than Gopher. It is resistant to the now prevalent races of stem and crown rusts and the smuts occurring in the North Central States. Vicland has out-yielded older varieties by approximately 20%. Recommended by Minnesota Experiment Station. See Blue Figure Price List.

TAMA OATS

Tama Oats is a result of a Victoria-Richland cross by U. S. Dept. of Agriculture. An early yellow grained oat with short stiff straw and high weight per bushel. Superior characters are early maturity, high yield, and satisfactory resistance to nearly all races of crown rust, stem rust, and the smuts of oats. Victoria parent provides resistance to 47 of the 51 races of crown rust known to occur in North America. Recommended by Minnesota Experiment Station. See Blue Figure Price List.

THE NEW OAT VARIETIES: Clinton, Benton, Bonda, Mindo

In 1946, a new oat disease, called "Helminthosporium", seriously reduced yields of Vicland, Tama, Boone, Forvic, and all oats of Victoria parentage. The newer varieties, Clinton, Benton, Bonda, and Mindo, as well as Marion, were not affected. Unfortunately, there is not enough seed of all these new varieties combined to plant 2% of the oat acreage of Northwest states in 1947.

The Minnesota Experiment Station warns farmers against buying unadapted oat varieties, such as Ajax (which is subject to rust and smut), and unknown, untested varieties sold as "Clinton type" oats. Very few farmers can obtain seed of genuine certified Clinton, Benton, Bonda, or Mindo this year, therefore, Minnesota's Experiment Station recommends only Vicland or Tama —PLUS Ceresan seed treatment for 1947.

"Helminthosporium" is a seed-borne disease, and treating Vicland or Tama seed with Ceresan, will achieve a large measure of control—but not complete control. Treating susceptible varieties with Ceresan, increased yield 63% in 1946 Iowa tests.

Insist on our pure Certified Blue Tag Tama and Vicland Oats, the finest quality seed available.



Vicland Oats bring a premium on the market.

Spring Wheat

NEW MIDA WHEAT

A new bearded, early maturing spring wheat with medium straw strength. Moderately resistant to leaf and stem rust and bunt, susceptible to loose smut, and moderately susceptible to scab. It has a high test weight per bushel and equals Thatcher in milling and baking characters except that it gives lower loaf volume. In 3 year tests (1941 to 1943) in North Dakota, Minnesota, South Dakota, and Montana, it outyielded Thatcher by 13.8%. Mida was developed from Ceres-Hope-Florence parentage by North Dakota Experiment Station. In 1945 U.S.D.A. trials, Mida averaged 29.5 bushels per acre, the highest yielding wheat at all 24 Regional Stations. Recommended by Minnesota Experiment Station and Northwest Crop Improvement Ass'n. See Blue Figure Price List.

RIVAL WHEAT

Rival is the result of a Ceres X (Hope-Florence) cross at the North Dakota Station. It's a bearded, mid-season, high-yielding hard red spring wheat. Plant is mid-tall and kernels are quite large. It is moderately resistant to stem and leaf rust. It is resistant to bunt and loose smut, moderately susceptible to scab, and susceptible to black chaff. Rival has a higher bushel weight than Thatcher and appears equal in milling and baking quality. Recommended for southern Minnesota because it is less susceptible to scab than other varieties. Recommended by Northwest Crop Improvement Association, and Minnesota Experiment Station.

Best Winter Wheat New MARMIN Winter WHEAT

A bearded winter wheat similar to Minturki in yielding ability, winter hardiness, disease resistance and time of maturity. It has higher bushel weight, harder texture, and produces whiter flour than Minturki. Because of this better milling quality and higher bushel weight, Marmin will probably grade higher on the market. A Minturki and Marquis cross. Recommended by Minnesota Experiment Station. Write for prices in August.

MINTURKI WINTER WHEAT

A bearded, white chaffed, stiff strawed variety of the Turkey type. It is early-maturing, yields well, is somewhat resistant to stem rust, and moderately resistant to bunt, loose smut, and fusarial head blight, but is moderately susceptible to leaf rust. It is a very hardy winter variety. A cross of Turkey and Odessa. Recommended by Minnesota Experiment Station. Write for prices in August.

Winter Rye

New Imperial Wisconsin No. 6

A new hardy, high yielding Winter Rye from Wisconsin's Experiment Station. It differs from older strains in being pure, for colorless seed, (often called "white rye.") The five-year average yield at Waseca's Experiment Station is 47 bu. per acre—a remarkable performance. Well adapted for all regions of Minnesota and the Northwest. Its superior performance placed it on Minnesota Experiment Station's recommended list. Write for prices in August.

GET EXTRA PROFITS—

By treating all Seed Grains with Ceresan.
See opposite page (page 64) for details!

The Newest in Barley



NEW "L" BARLEY Resistant to Stem Rust

New "L" or Kindred Barley was discovered as a single plant in a field of Wis. 37 Barley near Kindred, North Dakota. This entire field of barley was being plowed under because of a poor crop due to severe stem-rust damage, when this single plant, entirely free from rust, was noticed. Seed was saved and increased until it is now available to Northwest farmers.

It matures 3 days earlier than Wisconsin 38. "L" has an outstanding yield record, is not as subject to blight and foot rots as Wisconsin 38, and is recommended by Minnesota's Experiment Station. "L" Barley is a 6-rowed, rough awned variety of white aleurone. It's very high in yield, with good test weight and satisfactory malting quality. It has high resistance to stem rust, but only moderate resistance to lodging.

NEW MARS BARLEY

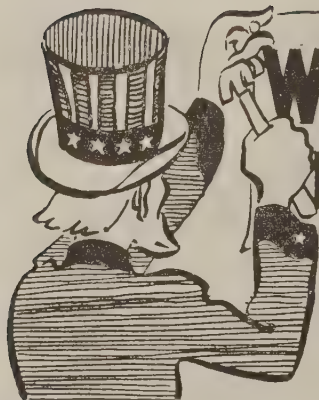
Developed by Minnesota's Experiment Station from a cross of Minn. No. 462 X Peatland. It is a six rowed, smooth awned, white aleurone variety that produces high yields of plump, well filled grain. It has outstanding straw strength, is early in maturity, and has high weight per bushel. Mars is resistant to stem rust, moderately resistant to spot blotch, but susceptible to scab, loose smut and leaf rust. Mars is not considered satisfactory as a malting variety. It is equal or superior to the standard malting variety, Wisconsin 38, in all malting and brewing properties except diastatic power. Therefore, it must be considered solely as a feed barley unless further data shows that it can be used for malting. An excellent performer in Iowa, according to Iowa's Experiment Station. Recommended by Minnesota's Experiment Station.

WISCONSIN BARBLESS (WIS. 38)

Developed by Wisconsin's Experiment Station from a cross of Lion X Oderbrucker. It is a smooth awned, six rowed, white aleurone variety, with high yielding ability. Barbless is resistant to barley stripe, moderately susceptible to spot blotch, and susceptible to scab, loose smut, and stem and leaf rusts. It has moderately stiff straw. It is an excellent malting variety. Approved by American Society of Agronomy in 1940. Recommended by Minnesota's Experiment Station.

"Seeding Wheat, Oats & Barley In Combination"

We offer a Free Bulletin telling what varieties of small grains mature at the same time and can be satisfactorily grown together. Write for it.



WANTED: More Flax!

Post-War Need Is Urgent!

The Government has set a goal of 5,000,000 acres of flax for 1947—an 85% increase over 1946 acreage! This is due to the critical world-wide shortage of fats and oils. A specified support price of \$4.00 per bushel, at Minneapolis, has been announced for

the 1947 crop of flax seed. This is equivalent to 2 1/4 times the pre-war price. The entire construction industry, both home and industrial building, is depending on linseed oil, derived from flax, for protective coatings of paint. The U. S. Dept. of Agriculture reports that flax is no more risky to grow than wheat or other grain. In Minnesota and North Dakota, wheat yields have been more variable than flax.

Furthermore, the outlook strongly suggests that cereal grains and feed crops will catch up with the demand long before fats and oils do.

It will require 4,500,000 bushels of flax seed to plant the acreage the Government wants. There will be a tremendous demand for seed flax to satisfy the urgent need for paint for home building alone. Order seed of recommended varieties early!

FLAX SEED (RUST & WILT RESISTANT)

To obtain large crops, sow early right after grains are planted. The earlier that Flax is sown, the better able the plant will be to withstand wilt and other diseases. Treat seed with Ceresan—Page 64. Sow 3 to 4 pecks per acre.

REDWING FLAX—Redwing is early in maturity, high in yield, moderately resistant to wilt, and moderately susceptible to rust. Seed is medium sized, and the oil produced is of very high quality. Developed and recommended by Minnesota's Experiment Station. Well adapted in Southern and Central Minnesota but not in the Red River Valley. See Blue Figure Price List.

NEW CRYSTAL FLAX—Crystal is immune from the common U.S. races of rust, but is moderately susceptible to pasmo. It can be distinguished by the crinkled white flower petals. Seeds are medium large, yellow with a greenish cast, high in oil content of good drying quality. Somewhat taller than Redwing. A vigorous grower, medium-late in maturity. Equal to Redwing in wilt resistance. Selected from the cross Bison X Ottawa 770B at Minn. Experiment Station. Recommended by Minn. Experiment Station, approved by American Society of Agronomy. See Blue Figure Price List.

KOTO FLAX—A new, high-yielding variety, mid-late in maturity, and resistant to wilt. Distinguished from Redwing and Biwing by its dark-blue flowers. Seed size, oil content and quality are very similar to Biwing. Koto is not pure for resistance to rust but has not been injured appreciably under the rust conditions that damaged Bison severely the past two years. A selection from a cross of (Russian X Argentine) X Bison, at the Mandan, North Dakota Station. Koto appears well adapted to all sections of Minnesota and similar territories. See Blue Figure Price List.

Ideal Flax Combination Crops

Legume—Grass—Flax Combination

As a nurse crop for Alfalfa, Clovers or Grasses, Flax has no equal, because it does not heavily shade the young forage plants and its sturdy stubble affords winter protection. The flax plants' open habit of growth and the presence of legumes and grasses in combination also aid in controlling weeds.

We recommend seeding a normal rate of Alfalfa, Red and Alsike Clover, Sweet Clover, Timothy, or other grasses with approximately one-half a normal seeding of flax per acre, or 14 to 20 lbs., so that the clover and grasses would not be smothered and a good stand secured.

A Clover or Grass Seed attachment to the grain drill may be used, sowing the seed ahead of the drill and covering it lightly with a harrow.

Wheat—Flax Combination

A combination of 15 to 20 lbs. of Flax and 45 lbs. of Seed Wheat per acre sown at the usual wheat seeding time has an advantage over flax alone, particularly in the control of such weeds as lamb's quarters and wild buckwheat. This early seeding which gives the wheat the best chance for development, provides the best conditions for the growth of the flax also.

Yields of 10 bushels of flax and 15 to 20 bushels of wheat are not uncommon, with a combined seeding. When threshed, they are easily separated with an ordinary fanning mill and can be sold at highest market value because the quality of the grain is usually very good. There is less danger of damage to either crop from disease or lodging when grown in combination.

RAPE FOR QUICK PASTURE

Rape is an annual forage plant of great value, profitable in all sections of the country. It can be grown to advantage on land which has already produced an early grain crop, like oats, rye, or winter wheat.

Rape provides excellent pasture for all kinds of livestock, cattle, hogs, and sheep. It can be sown at any time during spring or summer, so a good pasture can be had whenever it is needed. Rape will prepare sheep and hogs for market better and in less time than any other forage plant.

One acre is sufficient to pasture 12 to 15 sheep from six weeks to two months, and is the ideal pasture for weaning lambs. Spring pigs can easily be brought up to 200 lbs. in weight when six months old, if fed on rape. It is a mild succulent feed for cattle, and will not flavor the milk, if the cattle are pastured properly. Stock that is being fed on rape should always have access to salt.

Two pieces of land may be seeded at once, to be used alternately, pasturing one while the other is growing. Do not graze too closely. Rape makes a good fall pasture.

DWARF ESSEX RAPE—The common type that has produced the finest pastures for many years. Price: 5 lbs. \$1.75, postpaid. See Blue Figure Price List.

Advantages in Sowing Rape

1. Grows wherever corn or turnips grow.
2. Provides pasture in 6 to 8 weeks' time.
3. The best forage plant for dry seasons, because of its strong, deep root system.
4. Plant alone or with grain, soy beans, Sudan Grass or cane.
5. Adds humus matter to soil when plowed under.
6. Its cheapness; sown broadcast, use 5 or 6 lbs., sown in rows, use only 3 lbs. per acre.



3 to 4 tons of Sudan hay from one cutting.

SUDAN GRASS GROWS QUICKLY

One of the best annual forage plants ever introduced, suitable for almost any locality. Sudan Grass thrives best on rich loam, but has been successfully grown on almost every kind of soil, from heavy clay to light sand. Cold, wet soils are not suited to Sudan Grass. Sudan Grass is a sorghum, and an annual, without underground root sprouts. It grows 4 to 5 feet high in drilled seedings, and 5 to 8 feet in cultivated rows.

DO NOT SOW SUDAN GRASS BEFORE CORN PLANTING TIME. Like corn, it is a warm weather crop.

In favorable seasons, the growing period is long, and several cuttings can be obtained in one season. For hay it is ready to cut in 60 to 75 days, when it is in full head. It continues its growth, and in 40 to 45 days it is ready for another cutting. If Sudan Grass is grown for seed, only one crop can be harvested.

Produces Quality Hay

Sudan Grass is an enormous yielder, producing 3 or 4 tons of hay at the first cutting. The second cutting is lighter, and the hay is much finer. Livestock of all kinds will eat the hay readily.

CULTURE—For a seed crop, sow 15 lbs. per acre, in drills, 15 to 20 inches apart. The crop should be harvested with a grain binder.

For hay, sow at the rate of 20 to 30 lbs. per acre, using a grain drill, and cover from one to one and one-half inches deep. Heavy seeding makes finer quality hay.

The hay crop is harvested with a regular mower, when the Sudan Grass is fully headed out. It can be cut in the morning, and if the sun is bright, it should be raked up in the afternoon of the next day. After bunching, it is placed in cocks, just the same as alfalfa. After it has been thoroughly cured, it is removed from the cocks to the barn, or stacked. Because of the large amount of juice in the stems of Sudan Grass, the leaves cure first and the hay often appears ready to stack, when it is not. Therefore, the only sure way to avoid heating, is to allow Sudan Grass to remain in cocks long enough for the stems to become dry. The leaves are retained well, and if cut at the right stage will make a bright, leafy, sweet hay, of the very best quality.

Plant Legumes with Sudan

Sudan Grass grown with legumes, such as soy beans, makes a well-balanced mixture for pasture, ensilage and hay. Sudan Grass grows stiffly erect, with stems strong enough to support the vines and makes harvesting easier, by keeping them off the ground. It hastens curing, by preventing the beans rotting.

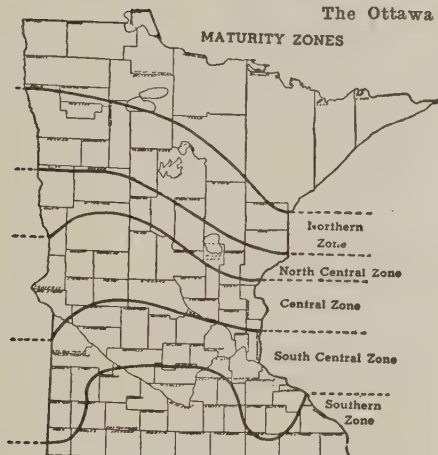
Sudan Grass and soy beans, planted together, make a good hog pasture. Sow 25 to 30 lbs. Sudan Grass and the same quantity of soy beans, to the acre, drilling in the seed with a grain drill. For quickest results, sow in rows 18 to 20 inches apart, and cultivate.

See Blue Figure Price List.

SUDAN GRASS CIRCULAR FREE



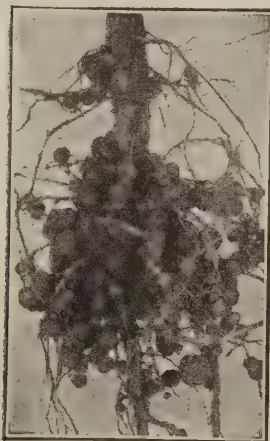
The Ottawa Strain of Mandarin—a most profitable crop for Minnesota farms.



Plant High Germinating Seed!

Recent University of Minnesota studies have shown that improper storage of soy beans causes "heating" and also injurious molds, which result in poor germination and weak seedlings. If beans have been stored when high in moisture, or where air is moist and circulation poor, the result is often "heating" of the beans, rendering them useless for seed.

Don't take chances on seed. It's the foundation for your crop. Insist on the highest quality seed stocks, and government recommended, early varieties, that are safe for your section and suited to early combine harvesting in Minnesota. Our seed stocks have been carefully tested to insure low moisture content before storage, and are then tested for high germination.



SOYBEAN root with nodules produced by NITRAGIN inoculation. NITRAGIN bacteria within the nodules aid in producing higher protein hay, more soybeans and richer soil.

**Get More
SOY BEANS**
by inoculating
your seed with
NITRAGIN
every year—even
though planted on
fields that have
been inoculated
before!

SOYBEAN NITRAGIN PRICES:

2 bu. size. . \$0.30

5 bu. size. . .55

25 bu. size (1 can)
not ppd. . . \$2.50

30 bu. size (six 5 bu.
cans) not ppd. \$3.25

How To Grow Good Crops of Soy Beans

CULTURE. Soy Beans require about the same treatment as corn, and will grow on almost any kind of soil, shallow peat or sandy loam, and even ground containing too much alkali for corn. Do not plant Soy Beans too early, about corn planting time is right.

Inoculate seed with Nitragin (below) and plant as follows:

1. In ordinary 6 in. rows with a grain drill, using 90 to 120 lbs. of beans per acre.
2. In 12 in. rows, using a grain drill and plugging up every other drill, using 80 to 90 lbs. per acre.
3. In 21 in. rows, using a corn planter with a bean attachment, the planter being set at the regular distance of 42 in. and the rows straddled. Plant about 70 to 75 lbs. of beans per acre.

4. Soy Beans may also be planted in rows 30, 36 and 42 in. apart and cultivated. Plant 35 to 45 lbs. of beans per acre.
5. Soy Beans may also be broadcast, using about 90 to 120 lbs. per acre.

Soy Beans for Seed

The seed crop is quite profitable. The seeds broken or split in threshing can be fed to livestock. For seed, the Soy Beans should be cut with a grain binder, while the dew is still on them, so they will not shatter. They can be threshed without much curing, if the seed is spread out so it cannot sprout in the bins.

Soy Beans may be turned under in the fall, thereby enriching the soil and making it mellow and easily tillable.

The Most Profitable Varieties for the North

RICHLAND

Developed by Purdue Experiment Station. Very popular in Northern Iowa because of its early maturity, high yield, standing ability, and high oil content. It grows 28 to 35 inches high, stands up well for combine harvest. Seed is medium sized, straw yellow. Recommended by Minnesota Experiment Station for hay, in the Southern Zone. Recommended for Northern Iowa by Iowa Experiment Station, 1946 U.S.D.A. data on 6 years testing shows Richland averaged 27.5 bushels per acre yield, with 41.1% protein, 20.2% oil of 128 iodine number. See Blue Figure Price List.

HABARO

Developed at University Farm. Habaro's 28 to 35 inch plants are highly resistant to lodging. Seed and hay yields run about as high as any variety tested at the Waseca Station. Recommended for seed and hay production in Minnesota's Southern Zone, South Central Zone and the southernmost two-thirds of Central Zone. 1946 U.S.D.A. data on 3 years testing shows Habaro averaged 27.9 bushels per acre yield, ranked first in protein content with 43.3%, oil content 18.6%, and iodine number of oil 133. Recommended by Minnesota Experiment Station. See Blue Figure Price List.

OTTAWA MANDARIN

An improved Mandarin from Dominion Experiment Farm, Ottawa. Plants grow 27 to 33 inches high, with good standing ability, purple flowers and yellow pods with 2 to 4 buff seeds. 1946 U.S.D.A. data on 3 years testing shows Ottawa Mandarin averaged 27.3 bushels per acre yield (highest in its maturity group), 42.6% protein, 19.2% oil of 131 iodine number. Ottawa is higher in yield and oil than Mandarin Wis. 507. Ottawa strain is recommended for seed and hay production in Southern, South Central, Central, and North Central Zones, and for hay only in Northern Zone. When planted late (June 20) in Southern Zone, Ottawa ripened and produced 25 bu. per acre. Recommended by Minnesota Experiment Station. See Price List.

EARLYANA

Developed by Purdue Experiment Station. Plants are semi-whiplike, with the pods along the main stem. Lower branches and pods are borne well off the ground. Flowers are purple, pods are brown, fairly large, with two, three and occasionally four medium sized seeds. Seeds seldom shatter when ripe, are straw yellow with brown speck on a pale hilum. In Northern Iowa tests, Earlyana yielded two bu. per acre more than Richland, proved four days earlier and better adapted to thinner soils. Recommended for Northern Iowa by the Iowa Experiment Station. 1946 U.S.D.A. data on 3 years testing shows Earlyana averaged 27.7 bushels per acre yield, with 42.5% protein, 19.6% oil of 135 iodine number. See Blue Figure List.

MANCHU, Wisconsin 606

Developed by Wisconsin Experiment Station. Similar to Habaro in yield, and maturity, with fairly good standing ability. Averages 1.5% to 2% higher in oil content than Habaro. Adapted for seed and hay production in Minnesota's Southern Zone, South Central Zone and Southern two-thirds of Central Zone, and for hay only in the Northern third of Central Zone, and in North Central Zone. 1946 U.S.D.A. data on 3 years testing shows Wis. Manchu 606 averaged 27.6 bushels per acre yield, with 41.4% protein, 19.9% oil of 135 iodine number. Recommended by Minnesota Experiment Station. See Blue Figure List.

MANCHU, Wisconsin No. 3

A Wisconsin Exp. Station selection from Manchu. Grows 30 to 35 inches high. Similar to Manchu Wis. 606 in standing ability and a few days later in maturity. Seeds are medium sized, straw-yellow with black hilums. 1946 U.S.D.A. data on 3 years testing shows 27.9 bushels per acre yield (highest in its maturity group), with 41% protein, 19.9% oil with 135 iodine number. Recommended by Minn. Experiment Station for seed and hay production in Southern Zone, and for hay production only in South Central Zone, and Southern Two-Thirds of Central Zone.

MASTER HYBRIDS for 1947

Master Hybrids are bred, produced, tested in Minnesota to insure fitness for Northern climates. Below we give you only FACTS. We quote yields from unbiased OFFICIAL STATE TRIALS, conducted by State Experiment Stations—not from private tests! (In Minn. State Tests, a plus index shows degree of superior performance over the average of recommended hybrids.)

See Blue Figure Price List in front of catalog

MASTER F-21

(84-88 Days)

A yellow double hybrid for Northern Zone of Minnesota, North Dakota, Wisconsin, Michigan, and Montana. One of the earliest hybrids grown. 3-year records show: 74" plants, 29" ear height, 7" ears with 15 rows, only 1% smut, 1% root lodging, no broken stalks. Bright, sound, deep yellow ears of high feeding value, easily harvested by machine. Produces well on peat or muck. Popular for hogging off in Southern zones.

*Performance in Official State Trials:

Test	Acre Yield	Rank
Minnesota, Northern Zone, 2 Yr. Average ('43-'44)	54.35	Plus 7.4 Index
Michigan, Northern Zones 6 and 7, 2 Yr. Average ('44-'45)	51.8	Highest yield of all hybrids tested
North Dakota, Northeastern Area (Grand Forks County), 5 Yr. Av. ('41 thru '45)	45.9	Significantly highest yielding group
North Dakota, Western Area (Burleigh County), 2 Yr. Average ('44-'45)	42.3	Significantly highest yielding group
Ottawa, Ontario, Canada, 1945	56.78	High yield
Montana (Huntley Irrigated), 2 Yr. Average ('41-'45)	71.5	5% greater yield, 3% less moisture than Payne's White Dent

MASTER F-41

(90-94 Days)

A new 90 day hybrid, tailor-made for Minnesota's North Central Zone, and similar areas in the Dakotas, Wis., and Mich. Replaces Master F-40. Superior to F-40 in yield and standing ability. Highest yielder in Michigan State Trials. (See below.) 3 year tests show 87 inch plants, 32 inch ear height, 8 inch ears with 16 rows, only 1% smut, 1% root lodging, no broken stalks. Sound, bright yellow ears, with deep kernels on small cob. High shelling percentage. A splendid feeding corn.

*Performance in Official State Trials:

Test	Acre Yield	Rank
Michigan, 1945 Montcalm County	52.1	Highest yield in entire trial
North Dakota, 1945 Richland County	41.0	Significantly highest yielding group

MASTER F-60

(98-102 Days)

A yellow dent hybrid, profitable in Central Zones of Minnesota, Wisconsin, Michigan, South Dakota and southeast North Dakota. 3-year averages show: 87" plants, 32" ear height, 8" ears with 16 rows, 1% smut, 1% root lodging, no broken stalks. A rapid grower with very deep green foliage. Bright yellow ears on short shanks, ideal for machine picking. Deep kernels of high feeding value.

See Performance of F-60 on page 1

MASTER F-82

(104-108 Days)

Our most popular yellow double hybrid in South Central Zones of Minnesota, Wisconsin, Michigan, South Dakota. 3-year records: 96" plants, 42" ear height, 8" ears with 16 rows, 1% smut, 1% root lodging, no broken stalks. Uniform plants of rich green color carry sound yellow ears with deep, thick dented kernels, preferred in the feed lot.

*Performance in Official State Trials:

Test	Acre Yield	Rank
Minnesota, South Central Zone, 3 Yr. Av. ('42 thru '44)	62.03	Index plus .4
South Dakota, 1945 Minnehaha County	53.2	Highest yield in entire test
Michigan, Saginaw County, 1945	82.4	Significantly highest yielding group
Michigan, Ingham County, 1945	79.1	Significantly highest yielding group

MASTER F-101

(114-118 Days)

A favorite big yellow type with a remarkable record for Southern Zones of Minnesota, Wisconsin, Michigan, South Dakota, and in Northern Iowa. Three-year data: 98" plants, 42" ear height, 9" ears with 18 rows. No smut, 1% root lodging, no broken stalks. A vigorous grower, dries rapidly after maturity. Huge ears with excellent grain quality.

See Performance of F-101 on page 1

Test	Acre Yield	Rank
Minnesota, Southern Zone, 3 Yr. Average ('42 thru '44)	70.9	Yield index plus 5.7

The Northwest's Greatest Silo Filler!!

IDEAL HYBRID SILO CORN

MASTER F-106 (116-120 Days)

Developed from our famous Ideal Silo Corn and specially bred for silage purposes. This hybrid is so popular in Minnesota, Wisconsin, Michigan, South Dakota and Northern Iowa, that we could not supply the demand. 3-year data: 98" plants, 42" ear height, big 9" ears with 16 rows of extra deep, soft starch, yellow kernels, high in feed value. 1% smut, no root lodging, no broken stalks. Produced 15 tons of quality silage per acre, rich in carotene, source of Vitamin A. Silage is best when corn is medium dented. Entire plant then contains 70% moisture, while ears are well developed and plant remains green. Splendid for silage in all zones—figuring maturity at 10 days later than for grain production.

*Performance in Official State Yield Trials:

Test	Acre Yield	Rank
Minn., Southern Zone 3 Year 1942-1944 Average	70.90	Yield index plus 9.9
Michigan, 1945 St. Joseph County	75.40	High yield



Ideal Hybrid Silo Corn fills many a silo from half the usual acreage. For feeding green, for ensilage and for curing in shocks to be fed in the bundle, it's the Northwest's greatest producer!

MASTER HYBRID F-101
(114-118 Days)

THE BEST MINN. & WIS. STATION HYBRIDS

★WISCONSIN 279 (84-88 Days)

The most popular Experiment Station 85 day hybrid in the Northern Zone of Minnesota, North Dakota, Wisconsin, Michigan, Montana, Canada, and similar territories. Wis. 279 is exactly the same hybrid combination as Nodak-hybrid 302, Michigan 11 A, and Canada 279. Hence, Wisconsin 279 is recommended by Minn., Wis., N. D., Mich., Canada, and Montana Experiment Stations.

Official Minnesota Yield Trials (Northern Zone), 3 year average yield: over 50 bu. per acre. It earned an index of plus 1.4, making the best record of all Minn. and Wis. hybrids in its maturity class.

Three year averages show only 1% smut, plant height 75 inches, ear height 30 inches, only 1% root lodging, only 1% broken stalks, ear length 6½ inches, 16 rows. Depth of kernel makes this corn a prime feed favorite. Performs well on peat soils. Ideal for "hogging off" in southern zones.

★MINHYBRID 706 (89-93 Days)

The only WHITE HYBRID of this maturity on the market and well adapted to the North Central Zone of Minnesota, North Dakota, Wisconsin, Michigan, Montana, South Dakota, and similar territories. Minnesota Experiment Station data for 4 year averages, show 57.5 bu. per acre, in the North Central Zone, with 26.1% greater yield than Haney's Minn. 13, and .8% less moisture.

Three year averages show only 2% smut, plant height 87 inches, ear height 30 inches, ear length 8 inches, and 14-16 rows. Can be easily harvested with a mechanical picker. Average 1.02% good ears per plant. Good for peat or muck soils, and recommended for hogging off in more southern sections. White corn is an excellent cash crop, as present markets provide a 15c premium over yellow corn.

★MINHYBRID 607 (97-101 Days)

A splendid yellow dent hybrid for Central Zones of Minnesota, Wisconsin, Michigan, South Dakota, and Southeast North Dakota. In the Official Minnesota Yield Trials, in the Central Zone, 2 year average ('43-'44), made a yield of 61.75 bu. per acre, with 32.7% moisture, and an index of plus 6.5, an excellent record.

Three year tests reveal only 1% root lodging, 3% broken stalks, 6% smut, plant height 79 inches, ear height 31 inches, ear length 7½ inches, with 14-16 rows. Can be easily harvested with a mechanical picker. Does well on peat soils, and excellent for hogging off in more southern sections. Produces bright, sound ears highly free from ear rots. Excellent kernel depth and grain quality, and outstanding in feeding quality.

★MINHYBRID 602 (98-102 Days)

Without a peer in its maturity group. Outstanding in Central Zones of Minnesota, Wisconsin, Michigan, South Dakota, and Southeastern North Dakota. Official Minnesota Yield Trials (Central Zone) 2 year average yield: 68.1 bu. per acre, with an index of plus 7.3, ranking as the most outstanding of all Minhybrids in the Central Zone.

Three year averages show only 1% smut, plant height 87 inches, ear height 32 inches, only 1% root lodging, only 1% broken stalks, ear length 7.6 inches, and 16 rows. Excellent for mechanical harvest. Has good depth of kernel and grain quality, and rates high as a feeding corn. A versatile performer—ripens well slightly north of Central Zone. In later zones, yields as well as hybrids a week later in maturity. A great performer!

★MINHYBRID 503 (105-109 Days)

A yellow double hybrid combination of three Minnesota inbreds with an inbred from Ohio. Adapted to South Central Zones of Minnesota, Wisconsin, Michigan, South Dakota. Official Minnesota Yield Trials (South Central Zone) 2 year average yield: 67.7 bu. per acre, ranking as the most outstanding Minhybrid. About the same maturity as Minhybrid 403, but out-yields it by 9½%. For three years, 503 has yielded fully as well as Minhybrids 406 and 407 in the Southern Zone, even though it matures much earlier.

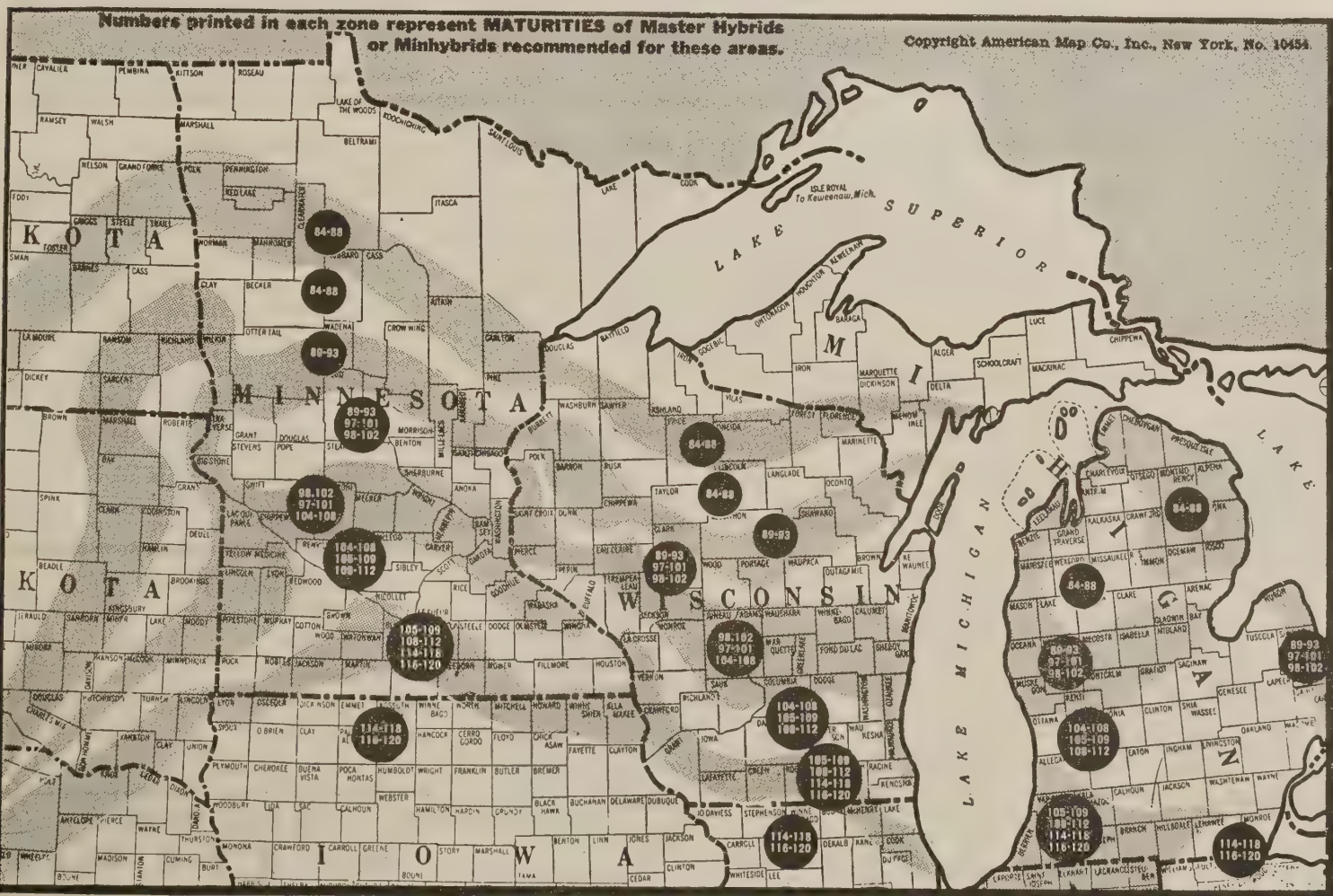
Three year averages show only 3% smut, plant height 97 inches, ear height 42 inches, only 3% root lodging, only 3% broken stalks, ear length 8 inches, 16-18 rows. Harvests cleanly with mechanical picker. Produces deep, richly colored yellow kernels of high feeding value.

★MINHYBRID 404 (108-112 Days)

A very pleasing yellow double hybrid in great demand in the Southern Zone of Minnesota, South Dakota, Wisconsin, Michigan, and similar locations. In the Official Minnesota Yield Trials, Southern Zone, 3 year 1942-1944 average, made a yield of 65.2 bu. per acre, with 29.5% moisture, with an index of plus 4.8, ranking as the most outstanding Minhybrid in the Southern Zone. Just slightly later than Minhybrid 403, but produces 11½% greater yield.

Five year averages show only 3% smut, plant height 94 inches, ear height 42 inches, absolutely no root lodging, only 2% broken stalks, ear length 7.7 inches, 18 rows. Harvests very well with a mechanical picker.

Master Hybrid and Minhybrid Planting Guide



Sorghum Cane



Making Sorghum Syrup From Minnesota's Famous Cane.

Relieve the Sugar Shortage!

The Minnesota Crop Improvement Association urges planting of sorghum for syrup manufacture to ease the shortage of sugar, and recommends Minnesota Orange Sorghum Cane, and Dakota Early Amber. The Iowa Experiment Station also recommends Minnesota Orange Sorghum for Northern Iowa. There are a number of sorghum mills in Minnesota and Iowa where sorghum may be taken for syrup production.

Shortage of Seed for 1947

There is a severe shortage of high germinating seed. Insist on early maturing varieties of good germination. Don't plant late maturing, southern strains unless for fodder. Order early, while our high germinating seed is available. See Blue Figure Price List.

MINNESOTA ORANGE SORGHUM CANE—An early strain selected from Waconia Orange, grown in Southern and South Central Minnesota for many years. Grows heavier but shorter stalks than Amber Cane and withstands storms and wet weather without lodging. Sow 8 to 10 lbs. per acre for syrup. An excellent sweet stalk sorgho, that produces 5 to 10 tons of quality cane per acre, and 25 to 40 bushels of seed per acre. Over 200 gallons of delicious, golden yellow syrup from one acre!

Minnesota Orange Cane syrup is preferred by consumers because it's lighter in color than Amber Cane syrup. Sorghum syrups are superior to other syrups for certain table and culinary uses. (Makes delicious brown bread, cookies, pies, baked beans.) Syrup made on farms is sometimes purchased by commercial concerns who market it, but usually farm-made syrup is utilized in the locality where made. Price: 5 lbs. \$1.25, postpaid. (See Price List.)

DAKOTA EARLY AMBER—The Early Amber Sugar Cane grown in Dakota is superior to that grown anywhere else. It is the earliest strain grown, very hardy, of fine quality, and yields from 12 to 20 tons of cane per acre, according to soil conditions and cultivation. It grows 8 to 10 feet high, yielding much fodder, of good quality. Early Amber Cane and Fodder Corn are often planted together, and produce immense yields.

One acre of Early Amber Cane will produce enough to make 175 to 200 gallons of syrup, of delicious rich quality, golden yellow color.

We offer an improved strain of Dakota Early Amber Sugar Cane which has been carefully bred for size, sugar content, and palatability. Sow 8 to 10 lbs. per acre for syrup. Price: 5 lbs. \$1.25, postpaid. (See Price List.)

FODDER CANE—(Southern Grown.) A profitable feed crop producing as much as 30 to 35 tons of green feed per acre. It makes good hay if cut before it grows too high. It matures later than Early Amber Cane. Sow 50 to 60 lbs. broadcast or 12 to 15 lbs. in drills per acre. Price: 5 lbs. \$1.15, postpaid. (See Blue Figure Price List.)

MILLET—The Ideal "Catch Crop"

Although many farmers are now growing Millet regularly as a hay crop, it was not until the last few years that its value was fully appreciated as a quick-developing crop. Many find it of great value in case of crop failure of Clover and Timothy, when dry, spring weather cuts short the pasture and meadow grasses, or when there is a cold, wet spring and corn and other early sown crops are drowned out—it is then that Millet is fully appreciated.

Millet may be planted up to July 1 and even later, and still produce a crop of hay or

pasture. Millet hay properly handled has great feeding value and milk-producing qualities. For hay it should be cut as soon as it blooms, before the seed forms, otherwise the hay is apt to be woody. In more southern sections Millet is sown as a catch crop after the grain has been harvested. It produces the best results in warm, rich soil.

Sow broadcast, using about 25 lbs. per acre, covering seed three-quarters of an inch deep. For a seed crop, allow the Millet to ripen fully and harvest with a grain binder.

JAPANESE MILLET—Billion Dollar Grass

One of the best forage crops for feeding all kinds of livestock. High in milk-producing qualities, being rich in protein and fats. Combined with soy beans, as ensilage, it makes an ideal balanced ration (two parts of millet to one of soy beans). Adapted to all sections of the country; it makes more hay than any other millet, and requires less seed. It is the ideal catch crop, and may be sown from May to July.

For hay, cut it just before it blossoms, and cure the same as clover. It also makes good pasture, but the cattle must be accustomed to it gradually.

- 1—It grows 4 to 8 ft. high and produces 5 to 6 tons of hay per acre.
- 2—It is drought-resistant, yet can be grown on wet or poor soil.
- 3—It is cheap to sow, only 20 to 25 pounds of seed per acre being required.
- 4—It is very palatable and is liked by all classes of livestock.

FOXTAIL MILLETS

Sow 15 to 20 pounds per acre.

GERMAN OR GOLDEN—This is one of the best varieties for hay and fodder. It makes rapid, vigorous growth, often yielding 3 to 5 tons of hay per acre, on good rich soil. It grows 4 to 5 feet high, is of rather coarse appearance, and should be cut for hay before it is in full bloom. At this stage, the hay is best, and so tender it can be fed to hogs.

SIBERIAN—We think this the best Millet for dry sections. It is extremely hardy, drought resistant, and about two weeks earlier than Golden Millet. It stools heavily, is very leafy, and yields enormous quantities of fine quality hay. It produces 50 to 70 bushels of seed per acre.

Price: Any variety, 5 lbs. \$1.20, postpaid. For larger quantities see Blue Figure Price List

PROSO MILLET

Sow 25 pounds per acre.

More Profitable than Corn for a Poultry Feed

RED PROSO MILLET—A very popular variety for producing ripe grain or seed, but not a hay millet. Can be seeded after early canning peas are harvested, and still mature a crop easily. Plants are short and medium-early in maturity. Seed hull is reddish-brown. In North Dakota Experiment Station trials, Red Proso was as readily consumed as yellow corn, by laying hens and growing turkeys. In fact, annual egg production per bird, was higher where Red Proso replaced corn.

Canada Yellow Field Peas

Field Peas are better suited to the Northwest than other annual legumes for building up wornout soils. They are usually grown with oats for hay, a combination equal in feeding value to clover hay. They contain more digestible crude protein and fat than alfalfa and corn.

When they are grown with oats, they are threshed together, and easily separated with a fanning mill after threshing, thereby getting two crops from one operation. Sow 2 bushels of oats to 1½ bushels of peas per acre. Drill the peas in 4 inches deep, as early as the ground can be worked. Then, 2 or 3 weeks later, sow the oats, drilling it in the other way. If the oats are sown with the peas, they grow too rapidly, and check or smother the growth of the peas. Price: 5 lbs. \$1.15, postpaid. For prices on larger quantities, see Price List.

Buckwheat

Generally the best grain crop for poor, thin land. Does best in moist, cool climates. Seed at the rate of 3 or 4 pecks per acre, late in the season when all danger of frost is past. Matures a crop in only 10 to 12 weeks. An excellent catch crop when seeded after canning peas or winter wheat have been removed. Yields vary from 15 to 30 bushels per acre. Buckwheat is an excellent weed eradicator, as its quick, vigorous growth offers severe competition to weeds.

Because the varieties Japanese and Silver Hull have become mixed, we offer seed merely as "Buckwheat." In fact, many growers consider it best to mix half and half seed of Silver Hull and Japanese varieties for sowing. The plants have somewhat different habits of growth, the Japanese generally growing taller and branching less than Silver Hull. Thus, when grown together, the two may occupy the land to better advantage. These varieties often have crossed among themselves, resulting in considerable mixtures of the varieties and of their hybrids anyway. See Blue Figure Price.

Vetch (Sand or Hairy)

Vetches, either green or as hay, make excellent feed and are also used extensively as cover and green manure crops. They make good hay, ensilage, pasture and green feed and are very valuable as a green fertilizer and as a cover crop in orchards, preventing the washing away of the soil.

Vetch may be sown in the spring at the rate of 60 lbs. per acre, or with a grain crop such as oats, wheat, rye or barley, at the rate of 30 lbs. per acre, and using one-half of the normal rate of small grain. This combination makes excellent forage or hay and also aids in preventing the Vetch from lodging. Vetch may also be seeded in the fall with winter rye for a hay crop, about August 1 to 20, using about 30 lbs. of Vetch and ¼ bu. of rye per acre. Price: 5 lbs. \$1.75, postpaid. See Price List.

Sunflower (Mammoth Russian) for Ensilage and Fodder

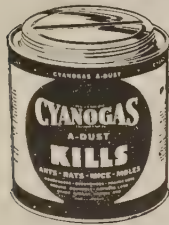
Sunflower for ensilage and fodder is now advocated by experiment stations. Profitable where seasons are too short for other forage plants, sorghums, etc.

A profitable crop for fattening hens or producing eggs. Flower heads measure 12 to 22 inches across, containing many seeds. Price: Lb. 45c, 5 lbs. \$1.75, postpaid.

BE SURE TO TRY WEEDONE

The original and most effective 2-4D WEED KILLER. See page 64.

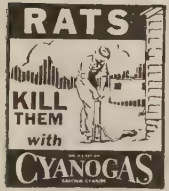
Farm and Home Pest Destroyers Money-saving Farm Helps



CYANOGLAS

"Sure-Catch"

Only
75c
Postpaid



KILLS
RATS, MICE, GOPHERS,
MOLES, WOODCHUCKS
in corn cribs, burrows, under
buildings, barns and hard-to-get-
at places.

Cyanogas gives off a gas deadly
to rodents. The residue,
after gas is given off, is non-
poisonous. Pests need not eat
Cyanogas or even touch it. It
gets em wherever they are.
Can be applied
with dusters
(below) or by
sifting. Direc-
tions on pkg.
Write for big
free folder telling how to rid
your premises of 24 different
farm and home pests.

MOLES

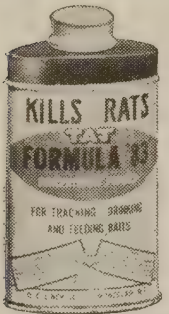


Cyanogas A-Dust: 1 lb. 75c,
postage 10c extra. 5 lbs. \$3.00,
25 lbs. \$10.00, F. O. B. Fair-
bault.

Cyanogas Brass FOOT PUMP



Kill rats, gophers,
moles, etc., in deep bur-
rows, or under buildings
with this powerful, heavy-
duty Cyanogas pump—
made of brass—lasts a
lifetime. New dust cutoff
valve makes a little Cyan-
ogas go a long way! First
apply minimum dose with
lever in "Dust" position.
Then force gas completely
through the burrow with
valve in "Air" position.
A complete kill—with no
waste! Price: \$7.50, post-
age 25c extra.



You've Read About It! "ANTU" TAT FORMULA '83'

So powerful one lick kills!
Leading magazines tell of this
war-time discovery that will
always kill rats. It's tasteless
yet a teaspoonful can kill 3,000
rats! Chickens not affected.
Offered in 2 forms:

HOME SIZE: Contains 4
oz. Feeding Bait—ready to use
—no mixing—also pkg. Drink-
ing Bait to dust on water.
Postpaid, \$1.00.

ECONOMY SIZE: 1½ lb. jar Feeding Bait.
Postpaid, \$4.00.

TRACKING BAIT: A shaker can of Con-
centrate Powder to sprinkle on runways—adheres
to feet creating irritation, causing rats to lick
feet. One lick kills! Shaker can ppd. \$1.00.

ROACH-NOT POWDER

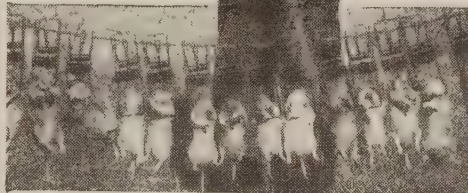
A sure killer that will quickly "lay them on
their backs." Gives immediate results in con-
trol of roaches, waterbugs and silverfish. It's
their last meal! Packed in handy shaker-top
canister, each postpaid, 30c.

RAT-NOT PASTE (A fast-action poison bait)



Recommended for big,
well-fed, hard-to-catch rats
which dodge cats and
traps, and are finicky in
their eating habits due to
easy access to tasty gar-
bage, and feed and food
warehouses. Also controls
chipmunks, squirrels,
prairie dogs. It's their last meal! Poisonous.
Packed in handy tubes, each postpaid, 40c.

Pocket Gopher Trap



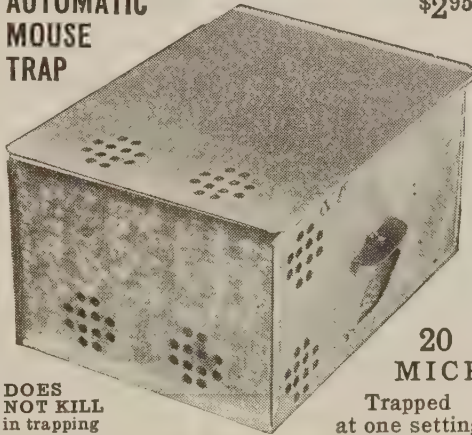
Few farmers realize the losses caused by pocket
gophers. Most counties pay bounties to check
these farm robbers, but here is a trap that will
really get a pocket gopher nine times out of ten.
This trap is simple and effective.

Sure-Catch Trap is easy to set—perfectly harm-
less to handle and fits into the gopher hole, half
length. Boys and girls make good money trap-
ping pocket gophers.

**Price, New Victory model made of heavy steel
wire; 75c each, 6 for \$4.25, prepaid.**

World's Finest AUTOMATIC MOUSE TRAP

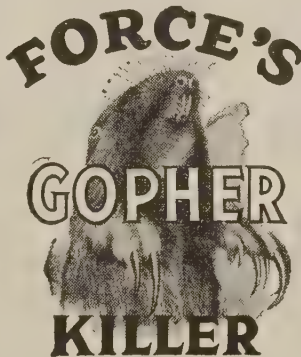
Postpaid
\$2.95



**DOES
NOT KILL
in trapping**

**20
MICE
Trapped
at one setting**

Catches mice by the dozens! Effective, fool-
proof, sanitary. Just wind it up, place it on
floor, and empty it every few days. Simply
eject trapped mice into water without touch-
ing them, or immerse the trap to destroy them.
The lively trapped mice attract others into
trap. Lures them without bait. Sturdily built,
all metal, fully galvanized, guaranteed, lasts
for years. \$2.95, postpaid.



GET RID OF Pocket Gophers

No traps, no
gas. No bait to
mix! Here is the
result of exten-
sive research,
made in ready-to-
use pellets—easy to
use. Has no
harmful effect on
soil or vegeta-
tion. Reaches
and kills Pocket
Gophers right in
the ground. Guar-
anteed effective. 60 Force's Gopher Pellets for
50c, 175 for \$1.00, postpaid.



IT'S NEWS! BAR-SPROUT

prevents
Potato Sprouting
in storage

A new marvel of
science enables farmers
and gardeners to store
home-grown potatoes for
12 months without

sprouting or shrinking! Cold storage not neces-
sary. BAR-SPROUT not only prevents unsightly
sprouts and shriveled tubers, but actually im-
proves cooking and eating quality! Potatoes
remain firm, fresh, finer flavored, make attractive
white potato chips. Saves 15% in shrinkage
alone, and unsprouted potatoes bring a premium
on spring markets. Controls sprouting of beets,
turnips, carrots, rutabagas in storage. BAR-
SPROUT treated vegetables are absolutely harm-
less for eating—even when 90 times recom-
mended dosage was used in qualified laboratory
tests. Easily applied from shaker top can—just
dust each layer of tubers when filling bin. The
brown powder is not noticeable after applied.

1 lb. Sifter can (treats 11 bu.) postpaid \$1.30
5 lb. Can (treats 55 bu.) postpaid \$5.75
20 lb. Drum (treats 250 bu.) not ppd. \$16.00

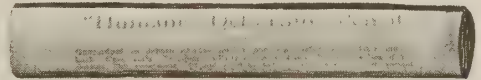
More Eggs

By Keeping Hens
Free from Lice with

MINK'S LOUSE KILLER OINTMENT

—One application keeps hens free from lice up
to six months. Pays its cost several times in
increased egg production. Wonderful remedy
for head lice, on baby chicks and turkeys. If
not completely satisfied, return empty box and
get your money back. One box treats 75 to
100 hens. Perfectly harmless. Price: 80c, ppd.

Humane Dehorning Pencil



The value of a calf is increased \$2.00 by de-
horning. The brutal method of sawing off the
horns is obsolete. Check the growth of horns in
young calves with our "Humane" Dehorning
Pencil. One application does the work—does
not injure calf—practically painless. Satisfaction
guaranteed or money back. Each pencil dehorn
10 to 15 calves, at a cost of about 4 cents per
calf. Thousands of satisfied customers.

Price: 50c per pencil, 3 for \$1.30, prepaid.

SEED TREATMENTS

ARASAN—The new and
profitable garden seed treat-
ment that's more effective and
easier to handle. See page 17.

BARBAK—This depend-
able seed corn treatment in-
creases germination and stand
at a cost of 2c per acre. Per-
mits earlier planting, prevents
seed rotting, and insures in-
creased yield. Price: 1½ oz.
pkt. (enough for 1 bu. seed)
15c, prepaid. Not prepaid, 1
lb. tin (60-acre size) 75c.

SEMESAN JR.—Another seed corn treat-
ment which destroys seed-borne diseases, protects
seed from rotting in cold wet soil, thus makes
early planting possible. Price: 1½ oz. (enough
for 1 bu. seed) 15c, prepaid. Not prepaid, 12 oz.
56c.

CERESAN—For treating seed grains—wheat,
oats, barley. See page 64 for details.

SEMESAN BEL—For treating seed potatoes.
See page 28 for details.

SEMESAN—For treating all garden and flow-
er seeds. ½ oz., 10c; 2 oz., 40c; 12 oz., \$2.00,
prepaid.

NITRAGIN—For inoculating Alfalfas, Clovers,
Soy Beans, and Garden Peas and Beans. Boosts
yields and enriches soil. See page 64.



High Grade Garden Implements to Make the Job Easier!

The "ALL PURPOSE" Garden Hoe for Cultivating Weeding and Mulching



Try this new, high speed, light weight garden tool! So easy to handle, so much lighter, faster and better—you'll never go back to the ordinary hoe! Enthusiastic women gardeners claim less fatigue, better results.

You'll find it's fun to flick Dandelion and Plantain from the turf, or mulch around evergreens, shrubs, perennials.

Goose-neck shank permits close cultivation of prized perennials. Amazingly efficient for mulching, cultivating, weeding your garden. Weighs only 1½ lbs., yet stronger than other garden hoes.

Makes gardening
a pleasure

Here is a splendid gift suggestion for any garden or flower lover—something new and different. Order today! Price: \$1.35 each, 3 for \$3.75, postpaid.

\$1.35
ppd.

GARDEX SEEDER— Victory Gardeners' Favorite — \$1.30



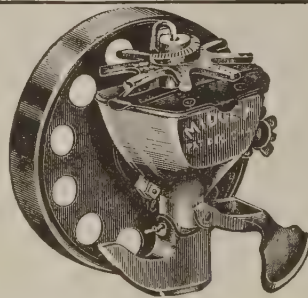
Gardex Sows Seed Evenly

The handiest little seeder ever offered. Adjustable for planting seeds from the smallest flower seeds up to cucumber size. Two discs fit together—are adjustable to obtain the right opening, and easy to fill. Sows seeds quickly, evenly, economically—no bending down necessary. They cannot clog up. Will give years of service at a small cost. Disc hopper capacity ¼ pint, diameter of discs 4½ inches, largest opening .28"x.4". Market gardeners prize this seeder highly for hotbed and greenhouse sowing. Complete with 30-inch normal length handle. Price \$1.30, prepaid.

MIDGET SEEDER No. 6

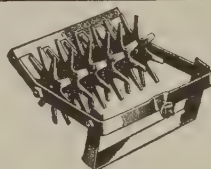
For sowing any kind of seed, from the smallest up to peas and beans, in any quantity. Will attach with one bolt to any Standard Single Wheel cultivator or most other Single Wheel cultivators having 5½ inches or more space between shank and wheel. Shoe is adjustable for any depth and coverer swings easily. The most popular seeder on the market. Handle extra if for use alone. Weight, 8 lbs.

Price: Set up, ready to be attached, \$4.65. With handle, \$5.50, not ppd.



Standard Weed Killer PULVERIZER & MULCHER

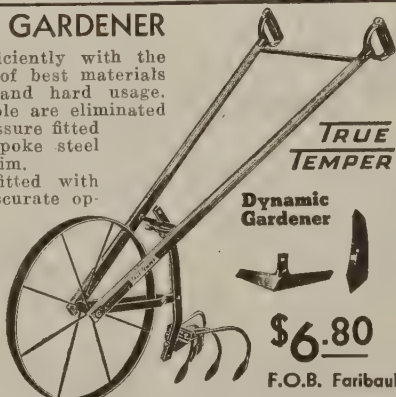
Attaches to any high wheel cultivator. Runs light. Has six star wheels mounted on revolving shaft. Between wheels are projecting teeth which pulverize the lumps. Mounted in front is a 10-inch scuffle blade, both edges sharpened. Weight, 6 lbs.



No. 120—DYNAMIC GARDENER

Light weight to operate efficiently with the least effort, yet sturdily built of best materials and precision fitted to withstand hard usage. Wear, friction, and wheel wobble are eliminated by an oilless wood bearing, pressure fitted in hub of sturdy, 20-inch, 8-spoke steel wheel, with 1½-inch convex rim.

Fire-hardened ash handles fitted with I-D-L grips assure easy and accurate operation. Overall length, 51 inches. Handles easily adjusted to any desired height. Steel parts finished in True Temper maroon lacquer. All attachments natural finish, rust proofed. Complete with these attachments: Five-prong Cultivator, Double-end Shovel, Scuffle Hoe. Weight, 38 lbs.



\$6.80

F.O.B. Faribault

No. 1523—GARDEX CULTIVATOR and WEEDER



Every gardener will prize this new tool—a cultivator and weeder combined. A real time and labor saver—light weight, very efficient. The 3-prong cultivator loosens the soil thoroughly—while the weeding blade cuts off weeds quickly. Painted red, it has three prongs, is 4½ inches wide. Weeding blade is 4 inches wide, complete with 4½-ft. normal length garden handle. Price \$1.45, prepaid.

ADJUSTO BROOM LAWN RAKE

A flexible, durable metal broom rake with a patented adjustable feature that gives usefulness and convenience, never before combined in any rake. The only broom rake that will clean both narrow and wide spaces. Opens to any size from 9 to 18½-inch spread. Nothing so handy for cleaning among shrubbery, between plants, and in corners. Ideal for raking grass and leaves. Has a 5 ft. handle of hardwood, lacquer finish, securely fastened with two clamps. The 16-inch teeth are made of high carbon tempered spring steel, electro galvanized. Weight less than 2 lbs. Price \$1.50, postpaid.

Closes to 9 in.
Opens to
18 in.



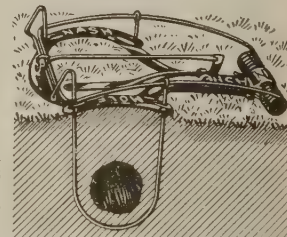
SALEM FERTILIZER SPREADER \$5.75

Distributes fertilizer or grass seed on lawns exactly as required. Also useful in top dressing, sanding and spreading salt, ashes or sand on icy walks and drives. Steel construction, reinforced hopper with adjustable feed control that permits applying any desired quantity over a given area. Both manual and automatic shutoff, full welded agitator, with riveted 8-inch disc wheels. 16-inch hopper has 22 pounds capacity. Spreading width 18 inches. Weight 13 lbs. By express, not prepaid, \$5.75.



Nash Mole Trap—\$2.50 ppd

Recommended by U. S. Biological Survey. The Trap That Always Catches the Mole in All Kinds of Ground When Properly Set. Clods or stones cannot prevent perfect operation. Catches mole when it comes from either direction. Mole is caught around forward flippers. If properly set, it cannot fail. Satisfaction guaranteed. Full directions included also for preparing skins for market.



New Automatic Garden Hose Nozzle

PICK IT UP...IT'S ON!



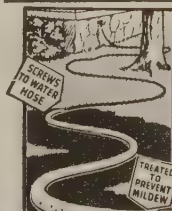
To operate Water Saver hold in hand just ahead of hose connection. See illustration above. Control flow by degree of pressure placed on flexible nozzle

The handiest time and water saver you've ever used. For watering garden, shrubs, lawns or washing car. Delivers any amount or force of water desired, with slight bend of wrist. Works like magic! Conventional nozzle can also be attached. Each \$1.60 ppd.



To stop flow, merely release pressure on the flexible nozzle. The internal trigger instantly closes valve and water stops. No leaks, no drip, no waste

DROP...IT'S OFF!



Like **ALL NIGHT RAIN**
IT REALLY SOAKS THE SOIL

SOIL-SOAKER

Water seeps through entire length gently—no spray—puts water where you want it—all soaks to the roots. Made of treated mildew-resistant canvas. One end screws to water hose, other end closed. Water seeps through every pore—soaks directly into the soil over an area of several feet on all sides. No excessive evaporation. Ideal for lawns, terraces, flower and vegetable gardens, hedges, shrubs, trees, etc. Saves on water bills. Get yours now!

PRICES
No. 1—
18 ft. long
\$2.15
No. 2—
30 ft. long
\$3.30
No. 3—
50 ft. long
\$5.25

Prices
All Postpaid

GOOD PROTECTION FOR YOUR GARDEN - TREES - LAWN - SHRUBS

TWIST 'EMS



SEE... JUST A SIMPLE TWIST OF THE WRIST

Home pkg. 125 Ties (8 inch) for 35c

AND PLANT IS TIED!

Strong, dark green tapes with wire reinforcing—the perfect plant-tie. For plants, vines, shrubs or bunching vegetables. In quantity, 7-inch size only: 250 for 60c, 500 for \$1.00, 1,000 for \$1.85, postpaid.



Twist ends between finger and thumb

In a "flash" stem is securely tied

DOG AND CAT CHASER



A stainless repellent with pleasant odor. Repels animals when sprayed on shrubs and bushes. Will not injure delicate plants. Use it on furniture, beds, etc., and dogs or cats will not lay on them. Protect garbage can or car. Non-poisonous, will not harm plants or animals. Price 50c, ppd.

"NO PUPS WANTED"



Female dogs make the best watch dogs and most gentle pets. They have cleaner habits than cause annoyance in attracting other dogs. LAG'S NO PUPS WANTED has a pleasant odor—is easily applied to female dogs when necessary, and other dogs will keep away. It is a semi-clear liquid—is harmless and will not stain the hair of white dogs. Price 50c, ppd.

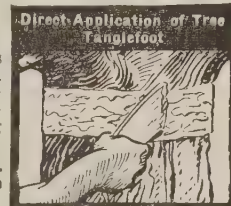
TREE TANGLEFOOT



Tree Tanglefoot is non-injurious, and used extensively by nurserymen and orchardists. Endorsed also by leading Tree Surgeons.

Price: 6-oz. can 50c, 1-lb. can 90c, prepaid. 5-lb. can \$3.75, not ppd.

Protect your trees and vines from climbing insects by banding them with Tree Tanglefoot. Prevents destructive insects from reaching the upper part and destroying buds and foliage. It is easily applied with a wooden paddle and lasts for months. Won't soften, run or melt, yet is always elastic and expands as tree grows.



ZOTOX KILLS CRAB GRASS

(WITHOUT DESTROYING LAWN GRASS) Zotox not only kills the plant, but devitalizes the seed, checking reinfestation and is not toxic to the soil. It may discolor the turf temporarily, which, however, regains its natural color after a few days. Simply mix with water and apply to lawn from sprinkling can or sprayer. Price: 8-oz. size (for 5 gal. solution, treating 1,000 square feet) \$1.00, 16-oz. size \$1.50, prepaid.

HERE IT IS!

The Original & most effective

2-4D WEED KILLER

'Kill Dandelion, Plantain, Poison Ivy, etc., without killing lawn grass!—and do it easily, safely, quickly and completely. Kill Bindweed or Canada Thistle without destroying grain or corn crops. (See page 64 for control of field weeds.) You've read about this remarkable 2-4D weed killer in magazines. Simply mix 1 part WEEDONE with 100 parts water and spray on weed foliage. It kills the weeds but not grasses. Not hazardous to livestock, pets, or wild life, does not sterilize soil, kills weeds down to root tips, not harmful to skin or sprayers.

6 oz. size, for 1000 sq. ft. (makes 5 gal. spray), postpaid 75c, quart size, for 5,000 sq. ft. (makes 25 gal. spray), postpaid \$2.50; gallon size, for 20,000 sq. ft. (makes 100 gal. spray), postpaid \$7.50, 5 gal. size, for 100,000 sq. ft. (makes 500 gal. spray), exp. ppd. \$30.00.



CYANOGLAS, ANT KILLER

Packed in special 4-oz. metal container equipped with spout for easy application. Simply shoot it into ant hills and no more ant trouble. Gets the ants at their source. Price: 40c, postpaid.



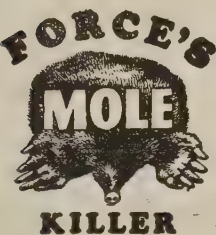
GARDEN RABBIT REPELLENT—A dry, powdered material which keeps rabbits out of the garden. Scatter over surface of the soil and it will prevent their eating carrots, peas, etc. Non-poisonous, safe to use near cabbage, lettuce, etc. Goes a long way when used between the rows of vegetables. Effective in spite of rain. 1 lb. pkg., 55c, postpaid.



PROTECT Young Fruit Trees - Shrubs

'Peter Rabbit' Repellent protects trees and shrubs from rabbits and mice. A green paint-like non-poisonous material which can be painted or sprayed on trees and shrubs. Its bitter taste is offensive to rabbits. One application lasts throughout

winter. Quart treats 50 small trees.
1 pint, postpaid.....\$1.00
1 quart, postpaid.....1.65
1 gallon, by express, not postpaid.....4.50



KILLS MOLES in their holes!

No Traps—No Gas No Exposed Poison. Made in easy-to-use pellet form, from the moles natural food, but contains a poison deadly to moles—kills them in the ground where they live. To eradicate entire family of moles, place pellets in visible

runways at 2 foot intervals. Moles readily seek these pellets, eat them and die. Treat new runways as they appear. 75 pellets for 50c, 185 pellets \$1.00, 875 pellets \$3.25, postpaid.

"HI-HUMUS" PEAT MOSS

If you have trouble with your lawn, if your soil is light and sandy, or if it bakes hard because of clay, our Minnesota Brown Neutral Peat will come to the rescue.

A two-inch mulch of peat on top the soil around the plant prevents killing of roots during both winter and summer. Holds moisture, reduces weeding.

Two ounces of Moss Peat can absorb 1 lb. of water. Use it around roses, shrubs, perennials, your window boxes, ferns and potted plants. One bag (about 3 bu.) will top dress about 400 to 500 square feet of soil. Inexpensive to use. Contains life-giving humus and nitrogen essential to plant growth—and is free from silt and weed seeds. Top-dress your lawn early in May. On heavy clay soil, work it in to a depth of 6 inches. (Descriptive circular free.) Peck (about 5 lbs.) 75c, 1/2 bu. (about 10 lbs.), \$1.25, postpaid to 3rd zone. Not prepaid: 1 bag (3 bu., 50 to 60 lbs.), \$1.95, f.o.b. Northern Iowa Warehouse.

For Better Gardens and Lawns

MOLITE RODENT KILLER

Kill moles or gophers with this "Gas" type cartridge. Simply light fuse—insert into holes or tunnels. Molite gas penetrates runways, brings quick death to rodents. 6 Molites for 80c, 12 for \$1.50, postpaid.

MASTER MOLE KILL

Punch hole in tunnel, drop in this non-poisonous bait. Relished by moles, but kills 'em. Economy size, 50c, prepaid.



SACCO PLANT FOOD

A single application makes grass and vegetables grow vigorously and flowers and shrubbery beautiful with bloom and foliage. Quick results, easy to apply, only a small quantity required, no offensive odor. Used for years on lawns of fine homes—on golf courses—in private gardens—hot-houses—and nurseries of florists and commercial growers.

Ten lbs. is sufficient to fertilize plot of lawn 20x25 ft.; 25 lbs. will cover plot 30x40 ft. (Use 2 to 4 lbs. per 100 sq. ft.)

Price: 5-lb. pkg. 40c (postage to 3rd zone 20c extra), 10-lb. pkg. 70c (postage to 3rd zone 30c extra). By exp. or freight, not ppd.: 25-lb. bag \$1.40, 50-lb. bag \$2.40, 100-lb. bag \$3.75.

Makes Things Grow! For Gardens, Lawns, Shrubs, Plants, Trees.



(Analysis: 4-12-4)

— RELIABLE INSECTICIDES AND FUNGICIDES —

ACME GARDEN DURA DUST



Newest combination insecticide and fungicide—contains DDT and copper.

Watch its quick effect on cabbage and cauliflower worms, also earworm on corn. Use it to protect onions, tomatoes, potatoes—also excellent on flowers for controlling Rose chafer, leaf hoppers and fungus diseases, though should not be used on melons and vine crops. Directions on each package. 1 lb. sifter top can, 50c; 4 lb. bag \$1.20, postpaid.

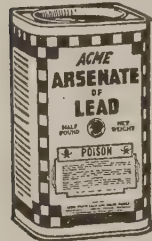


ROTENONE GARDEN GUARD—Non-poisonous. Recommended for dusting on cabbage, cauliflower, beans, etc. Also controls lice, fleas and mites on dogs, cats and chickens. Safe to use. 1-lb. sifter top can, 58c, postpaid.

"NOK-EM-KOLD" GARDEN INSECTICIDE—It controls cabbage and cauliflower worms, cucumber beetles and insects. Dust on while damp with dew. Price: 1 lb. 25c, prepaid.—Not prepaid, 5 lbs. 90c, 10 lbs. \$1.35.

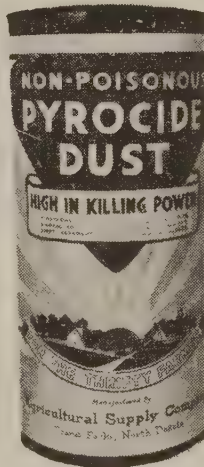
WETTABLE DUSTING SULPHUR—

Keep your roses free from mildew, black spot, leaf spot and other hideous fungous diseases. Price: 2-lb. can, each 50c, prepaid.



ARSENATE OF LEAD—Safest to use on tender foliage and sticks well on the leaves. Can be used as dust or spray. Price: 1 lb. 45c, prepaid; 4 lbs. \$1.10, ppd.

BORDEAUX MIXTURE—Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungous diseases. Price: 1 lb. 45c, prepaid; 4 lbs. \$1.10, ppd.



PYROCIDE DUST NO. 10—The newest dust insecticide for control of squash and melon bugs—cabbage and cucumber beetles. Non-poisonous, yet powerful. Also effective control for aphids, beetles, leafhopper and chewing insects. 1 lb. 45c, ppd., 5 lbs. \$1.85, ppd.

NEW PYRO-CUPER DUST—A combination of Pyrocide, Lethane, and Copper to be used as a dust for controlling same garden insects as listed for pyrocide where the addition of a fungicide for blight control is also desired. New Pyro-Cuper is an excellent insecticide and fungicide combination for cabbage and melons. Price: 1 lb. bag 50c, 5 lbs. \$2.10, ppd.

ROTENONE GARDEN SPRAY (NNOR)—Makes available the tremendous killing power of rotenone in a more effective form than ever. Penetrates the hairy or waxy covering of insects to put rotenone in direct contact with the body, resulting in quick killing action. Kills most common garden insects of both sucking and chewing types. 1 oz. 40c, 6 ozs. \$1.10, ppd.

DURA DUST NO. 50

Contains 50% DDT



Prepare your own insecticide, spray or dusting powder for treating potatoes, fruit trees, vegetables (except vine crops), or making cattle dip—treating walls, kennels, etc. Product is soluble, can be blended down as directed on the package.

DDT is effective on leaf hoppers, flea beetles, Jap beetle, cabbage worms, potato bugs, thrip, Rose chafer, flies, mosquitoes, bedbugs, ants, fleas and lice. Price: 1 lb. carton 95c; 4 lb. bag \$2.75, postpaid.

PROTECT TOMATOES WITH

ACME KOPPER KING—

Spray or dust to control tomato blight, wilt and mildew. Newest recommended development. 1 lb. 50c, 4-lb. bag \$1.10, ppd.



TOBACCO DUST—Destroys rose slugs, lice, vine bugs, tomato worms, currant worms, cabbage lice. Apply when foliage is wet. Price: 2 lbs. 40c, prepaid.—Not prepaid, 2 lbs. 30c, 10 lbs. \$1.50.



ACME RED RIVER POTATO MIX WITH DDT—DDT has been added to this outstanding product to make it better than ever. Now controls leaf hopper and psyllid as well as potato bugs, flea beetles and aphids. Controls early and late blight. Spray or dust. The all-around, economical potato mixture. 1 lb. bag 55c, 4 lb. bag \$1.70, ppd. to 3rd zone.

TOMATO DUST—A new dust product for controlling blight as well as insects preying on tomatoes. Also effective on leaf chewing insects and blight on potatoes, cucumbers, beans, cabbage, roses, asters, etc. New 1-lb. sifter-top cans: 50c, postpaid.

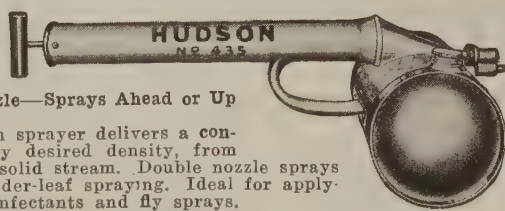
LIME SULPHUR—Dry powder for scale, blight, leaf curl, twig borer—also for summer spraying against soot, blotch, red spider and mite. 1 lb. 45c, ppd.; 5 lbs. \$1.70, ppd.

"BLACK LEAF 40"—(Sulphate of Nicotine.) For killing the green aphid or lice which usually appear on sweet pea, cucumber and other vines. Used for spraying all kinds of plants. Price: 1-oz. bottle (makes 6 gallons of spray) 40c, 5-oz. bottles \$1.10, 1-lb. bottles, \$2.50, prepaid to 3rd zone.

CALCIUM ARSENATE—Very effective in controlling certain chewing insects. Recommended on hardy foliage of potatoes and certain vegetables. 4-lb. bag, 60c, postpaid.

— DEPENDABLE SPRAYERS AND DUSTERS —

Continuous SPRAYER



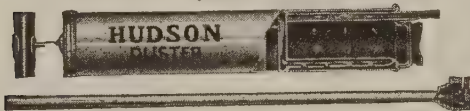
Adjustable Dual Nozzle—Sprays Ahead or Up

This sturdy garden sprayer delivers a continuous spray of any desired density, from the finest mist to a solid stream. Double nozzle sprays ahead or up—for under-leaf spraying. Ideal for applying insecticides, disinfectants and fly sprays.

No. 435 Cardinal with 3 qt. galvanized steel tank \$1.60 ppd. (shown above).

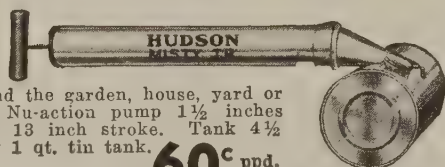
No. 766 NEW ADMIRAL DUST GUN

Applies insecticide in fine dust or heavy cloud. Powder can't enter pump chamber. 24-inch extension has adjustable nozzle for straight or angle discharge. Ideal over-and-under-leaf coverage.



\$1.50 ppd.

NO. 452 MISTY SPRAYER



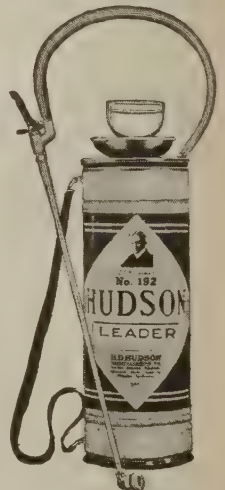
A favorite for use around the garden, house, yard or poultry house. Patented Nu-action pump 1½ inches diameter, 17 inch overall, 13 inch stroke. Tank 4½ inches diameter. Capacity 1 qt. tin tank.

A handy sprayer, easily operated. Price: 60c ppd.

COMPRESSED AIR SPRAYERS

NO. 192 LEADER—(3½ gallon). A large capacity, high pressure sprayer with malleable screw cap and convenient funnel top. Galvanized steel tank, seams riveted and soldered. Tested at 100 lbs. pressure. Heavy duty pump cannot be removed before pressure is exhausted. Automatic shut-off valve locks open for continuous spraying. \$6.00, not ppd.

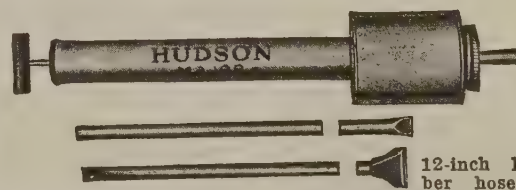
NO. 235 HUDSON CLIMAX—3½ gal. open top. High pressure all purpose sprayer has galvanized steel tank riveted and soldered seams. Tested at 100 lb. pressure. Pump seals into tank by means of 4 steel locking fingers controlled by malleable D pump handle. Has 7¼x21 inch tank, 1¼x14 inch pump, 24 inch high pressure spray hose. Perfection automatic shut off valve, 2 ft. extension rod, angle spray nozzle. Extra large top opening, permits easy cleaning. Weight 10 lbs. \$7.60, not prepaid.



No. 666. NEW MAJOR DUSTER for Cyanogas or Insecticides

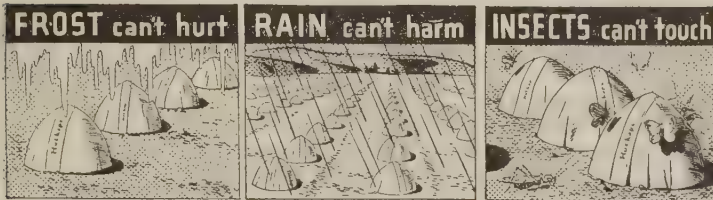
This inexpensive duster can be used for Cyanogas and should last several seasons.

Price: No. 666 Major Duster with two 12-in. extensions, two nozzles



12-inch heavy rubber hose extension \$1.35 ppd. for proper Cyanogas application.

Hotkaps Protect Your Garden!

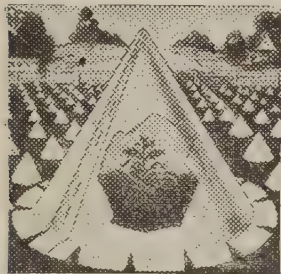


HOTKAPS are waxed paper cones, easily set out over seed or growing plants. They guard against rain, frost, cold, wind, hail, birds and insects, and maintain a perfect mulch. Yield is increased and hastened. Flowers and vegetables mature two to three weeks earlier.

"HOME PACKAGE" HOTKAPS

	Prepaid to 3rd Zone	Not Prepaid
25 Hotkaps and cardboard setter.....	\$0.70	\$0.60
100 Hotkaps with fibre-board setter.....	2.40	2.20
250 Hotkaps with fibre-board setter.....	4.50	4.15

HOTKAPS ONLY		
Steel Hotkap Setter, \$1.75, prepaid. Tampo, 25c, prepaid.		
Fibre-board Garden Setter, each 20c, prepaid.	500 Hotkaps.. \$ 7.20	\$ 6.80
Weights: 100 Hotkaps, 5 lbs.; 250. 9 lbs.; 1,000, 30 lbs.	1,000 Hotkaps.. 13.00	12.00



Paxton Hot Houses

Here is crop insurance every grower needs. Hot Houses force growth of plants to bring them on the market two to four weeks earlier than normally. Early crops bring the greatest return.

Hot Houses are new, improved, strong, sturdy, and wire reinforced to withstand extremes of weather. They allow maximum growth. Size 12 inches in diameter and 11 inches in height. Temperature inside of Hot Houses is from 10 to 20 degrees warmer than outside and heat is retained for a long period after outside temperature lowers.

Faster Setting—One man can set 300 to 350 per hour. Get special folder and instructions for setting. Order early.

Packed 50 per carton (with cardboard setter for \$1.50. 100 for \$2.65, 250 for \$8.00, 1,000 for \$15.50. Metal Setter

2 TO 4 WEEKS EARLIER TO THE MARKET AND TOP PRICES FOR YOUR PRODUCTS—

\$5.00, ppd. Not prepaid: 500 \$1.85. (Wt., 40 lbs. per 1,000.)



Cabbage Maggot Protectors

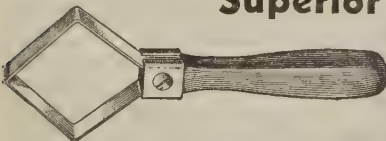
A repellent and barrier that really protects your plants from cabbage maggots. 24 for 20c, ppd.

Cutworm Protector

Save your tomato and other plants this easy way. 12 for 15c; 50 for 35c, ppd.



Superior Hand Weeder



A new design superior to other hand cultivators. Hardened steel blade with all edges sharpened. Bright orange plastic handle that's light weight, has good balance, easy to see, if misplaced. Each 75c, postpaid.

Masters Rapid Plant Setter

The only practical tool for transplanting all kinds of plants—Tomatoes, Cabbage, Cauliflower, Pepper, Egg Plant, etc. Not recommended for Strawberry Plants.

Each plant is set, watered and covered in one operation, without any stooping or lame backs. Cuts labor to one-third. With the Masters Rapid Plant Setter, one man will set 8,000 to 15,000 plants per day—this is more than three men can do by hand.

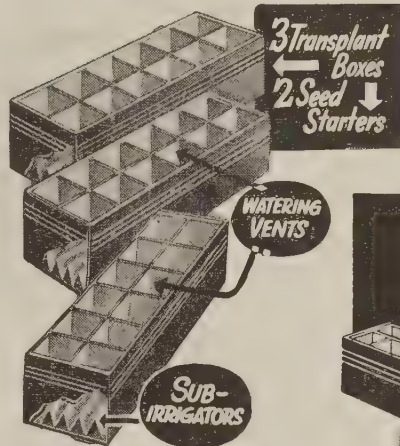
Does Perfect Work.

The roots of each plant are put into the ground in a natural position and firmly set by the absorption of the water into the ground. This is "Nature's Own Way." Transplanting losses are reduced to the minimum. The tiny roots are sucked into the ground almost as though they grew there and the plant takes hold and starts to grow at once.

Thousands are in use—they are guaranteed to satisfy you fully or money back. This Setter will pay for itself within the first week of use. Price: \$5.85, prepaid to 3rd zone (300 miles). Weighs 7 lbs.



Seed Starter & Transplant Kit



with **MICA-GRO**
—the amazing new sterilized seed-starting medium!



It pays to start your seeds indoors, and here's complete equipment for growing healthy seedlings and sturdy transplants—ready for the garden when wanted! Features include slender, "fit-the-window-sill" design, controlled watering from the bottom, more rugged, water-tight, mold-proof construction and generous fill of MICA-GRO, the new and better seed starting medium. Complete kit has 1 pkg. Mica-Gro, 2 seed starter boxes, 3 green transplant boxes for 33 potted plants, a trial pkg. BOOST 'EM, the remarkable new starter solution mix, complete plant-growing instructions and 2 pkts. seed, (tomato & cabbage). All for \$1.25, postpaid.

2 SEED STARTERS
CAPACITY 5 TO 10 DOZ. SEEDLINGS

TRAIN-ETTS

New Weatherized TRELLIS NETTING

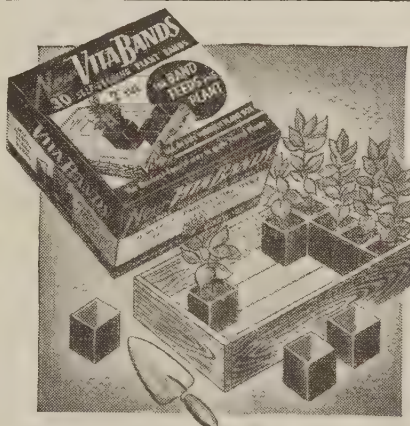


Ideal Support for SWEET

PEAS, GARDEN PEAS, POLE BEANS, CUCUMBERS, TOMATOES

Grows finer, larger flowers and vegetables. Hung with ease in 5 minutes; no fuss or bother. Use instead of string or wire. (Wire in sun burns delicate tendrils.) Doesn't rot like string—lasts several seasons. In 3 sizes, No. 1, 60x72 in. 65c; No. 2, 60x96 in. 85c; No. 3, 60x180 in., \$1.25. Postpaid.

Nutrient Treated Plant Bands



These square, open-bottom, plant bands are ideal for growing potted plants. They can be used in any shallow wooden box or greenhouse flat. Made of water-proof, mold-resistant fibre, compatible to plant growth, and treated with plant food to insure vigorous, well balanced growth. No locks, no folding, no assembly—ready with a single squeeze!

Pkg. of 30 Bands 2" square, 2 1/2" high, 35c, postpaid; 33 pgs. (about 1,000 bands, weight (40 lbs.) for \$5.45, not ppd.

Neponset Flower Pots

Adapted for growing, transplanting or shipping. Made of tough, waterproof green paper, eliminating breakage. Permits speed in handling and more economical than clay pots. Used by the best gardeners everywhere. The green pots are somewhat heavier for frequent handling. Weight 4 in., 52 lbs. per 1000.

	25	100	1,000
PRICES:	Prepaid	Prepaid	Not Prepaid
3 -inch, green..	\$0.45	\$1.40	\$10.60
4 -inch, green..	.55	1.95	16.55

NEPONSET RED POTS

Not quite as heavy as the green—will stand up under reasonable moisture for several weeks. Used extensively for transplanting and shipping. Reinforced disc in bottom.

	25	100	1,000	Weight
PRICES:	Prepaid	Prepaid	Not Prepaid	Per 1,000
3 -inch, red	\$0.40	\$1.00	\$6.85	25 lbs.
4 -inch, red .....	.45	1.30	10.40	42 lbs.



Newest Miracle-Working Chemicals and Garden Aids

TRANSPLANTONE



Amazing new HORMONE-Vitamin stimulant "does things" to more plants than B1 alone! Mix with water—apply to soil. Makes better lawn turf, plants, tree and seedling roots. Unbelievable results transplanting VEGETABLES—tomatoes start quickly—no wilting or setback. 50% more yield reported. 1 oz. makes 10 gallons transplant solution or 1,000 gals., watering solution. Free folder on request. 1/2-oz. pkt., postpaid, 25c. 3-oz. can, postpaid, \$1.00. 1-lb. can, \$4.00 ppd.

ROOTONE



Hormone Wonder Powder for seeds, cuttings, bulbs. Luxurious lawns, 2 weeks earlier—bigger, earlier flowers, garden crops! Seeds dusted with Rootone germinate faster, root deeper, make stronger, healthier seedlings. Cuttings dipped in Rootone speedily develop surprising roots. Free booklet on request. Trial pkg. 25c. 2-oz. jar (treats 20 lbs. lawn seed) \$1.00. Pound \$5.00, ppd.

FRUITONE



The Hormone Spray—stops pre-harvest drop of apples and fruits—hastens maturity and increases set. Will keep leaves and berries on shrubs and trees longer, and insures better setting of fruit. Aids pollination of flowers—keeps needles from falling off Christmas trees, or berries from holly wreaths.

Full directions with each package—be sure to try this modern miracle. Trial pkt. 25c.

2-oz. can makes 25 gals. spray, \$1.00. 12-oz. can makes 150 gals. spray, \$5.00.



MAGIC GREEN FINGERS

Pkg. of 36 for 25c ppd.

Simply push Magic Green Finger into soil of potted plants, window box, or garden plants—and watch improved growth and beauty! Easiest way to apply Vitamin B1. Each Green Finger provides an average plant with B1 stimulant for 1 month! Attractive, colorful pkg. of 36 Magic Green Fingers. Price ppd.: 25c.



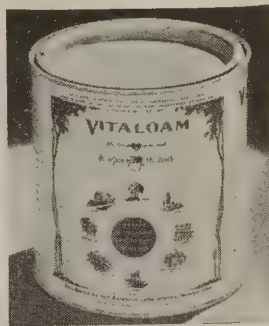
Makes your Cut Flowers Live Longer

Retards wilting—keeps color and fragrance much longer even in steam-heated rooms. No need to change water or recut stems. Liberal package10c 3 pkts. 25c ppd.

Try Organic Gardening

with

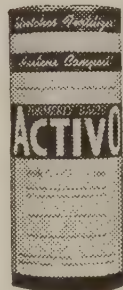
VITALOAM



Now you can grow really BIG vegetables, fruits, flowers with this amazing organic soil conditioner for everything that grows—house plants, garden crops, trees, shrubs. Grows grass under trees. It's easy to use—just mix into soil. Only one treatment for entire growing season. Cannot burn tenderest roots. Used by professional growers in 48 states. Vitaloam is a tremendously condensed humus preparation containing a bacterial culture that continues improving soil, while the enriched soil grows the crop. Positively not a commercial fertilizer. This soft, velvety material improves soil texture, has 800% moisture capacity, high in Ph. balance, billions of beneficial soil bacteria produce greener, healthier plants, with fruits of finer flavor, greater health value. A new thrill in gardening! 3-lb. can postpaid \$1.10, 25-lb. can by express not prepaid \$3.75, 50-lb. can by express or freight not prepaid \$6.50.

Make Your Own FERTILIZER

from Grass Clippings, Leaves, Garbage and Other Waste Materials



ACTIVE makes rich fertilizer humus easily, quickly, cheaply from kitchen waste, sawdust, garden rubbish, etc., at a few cents cost. Also stretches commercial fertilizer—makes it go six times farther. It activates potting and garden soil. Reduces odors in outdoor toilets, making rich, easily handled garden humus. Active (an organic composition) transforms waste materials into valuable fertilizer by bacterial action. Does not kill earthworms or beneficial soil organisms, as do chemical compost hasteners. Just sprinkle on compost pile—it speeds decomposition, makes rich, odorless humus that builds up soil, without strong chemicals. Trial size (4 ozs.) postpaid, 25c, No. 2 size (for 450 lbs. compost) ppd, \$1.00, No. 7 size (for 1,800 lbs. compost) ppd. \$2.35.



VERMICULITE

Famous MICA-GRO Brand

The wonder garden aid described in magazines. The perfect growing medium that starts seeds and cuttings faster, grows them bigger, stronger, with up to 100% stand and phenomenal root growth. Holds many times its weight in water plus oxygen. Prevents drowning, "damping off" and other diseases. It's sterilized—it cannot rot. A featherweight soil for seedling flats, an ideal insulated garden mulch, ventilates heavy clay soil, ideal for forcing winter blooming bulbs, or starting garden seeds early. 1/2 pk. postpaid 75c, 2 cubic ft. bag by exp. not ppd. \$1.75.



TREAT VEGETABLE AND FLOWER SEEDS

New ARASAN is the most modern disinfectant for all garden seeds. In actual tests, untreated seeds that produced a 64% stand, showed 83% stand after dusting with Arasan! Nearly 30% increase—it pays! Non-irritating, easy to apply. 1-oz. pkt. postpaid 16c, 8-oz. can postpaid 85c.



BOOST 'EM Starter Solution

This remarkable formula increased tomato yields 4 tons per acre at Purdue University—boosted potato yields by 100 bu. per acre at U. of Maine. For CABBAGE, TOMATO, MELONS, PEPPERS, EGG PLANT, etc., dissolve 1/2 lb. BOOST 'EM in 5 to 8 gals. water, apply 1/2 cup solution per plant when transplanting. Results are remarkable!

Apply solution direct to garden seed when planted—again at blossom or fruiting stage.

Advantages of Boost 'em Starter Solution:

1. Reduces transplanting shock, plants resume growth earlier, fewer plants to replace.
 2. Earlier harvest, greater yield and better quality.
 3. Longer bearing period.
 4. Instantly soluble, cheap—easy to apply.
- Other profitable uses: apply direct to garden crops such as beans, peas, sweet corn, for mid-season boost. A splendid liquid fertilizer for house plants, shrubs, perennials.
- 3 oz. (for 2 to 3 gals. solution) postpaid, 25c, 1 1/2 lbs. (for 20 to 25 gals.), postpaid, \$1.00, 10-lb. can, postpaid, \$4.00.
- 25 lbs. (freight or exp. not prepaid), \$7.00, 50 lbs. (freight or exp. not prepaid), \$11.00.

BAR-SPROUT

Prevents POTATO SPROUTING in storage



Now you can store your home-grown potatoes for 12 months without sprouting or shrinking! Cold storage not necessary. BAR-SPROUT actually improves cooking and eating quality, also appearance. Saves 15% in shrinkage. Controls sprouting of carrots, turnips, rutabagas in storage. Absolutely harmless (see page 71).

Just dust tubers with sifter can. 1-lb. Sifter can (treats 11 bu.) postpaid \$1.30, 5-lb. can (treats 55 bu.) postpaid \$5.75.

GROW SEEDLESS TOMATOES!

Grow Earlier, Larger, Sweeter, and More Tomatoes on each plant with "NO-SEED," an approved plant hormone that's easy to use. Just mix with water and spray newly opened blossoms. "NO-SEED" induces artificial setting of fruit, prevents falling of first blossoms, gives ripe tomatoes 2 to 4 weeks earlier! Treated plants produce larger, firmer, meatier fruits, without seeds. Grow seedless peppers, egg plant, cukes, squash. Tested by U.S.D.A., leading Universities, Colorado Experiment Station. 4-oz. bottle (for 1/2 gal. spray) ppd. 65c, 8-oz. bottle (for 1 gal. spray) ppd. \$1.00, quart (makes 4 gals. spray) ppd. \$2.60.



Jungle Tested INSECT REPELLENT

FAMOUS 6-12 FORMULA

The famous formula the Army used in South Pacific. Mosquitoes, biting flies, gnats, fleas, chiggers will stay away with a few drops applied to hands and face. TIME magazine says: "Formula 6-12 is reported to be six times as effective as 100% citronella." 2-oz. bottle 55c, two bottles for \$1.00, postpaid.

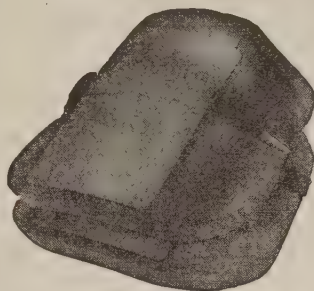
PRACTICAL NEW HOME & GARDEN AIDS



Improved Han-D Sprayer

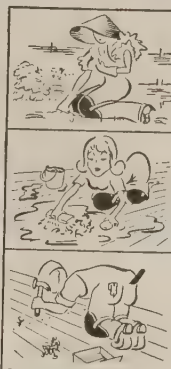
A new, greatly improved all purpose quart sprayer for home, farm or garden. Sprays LIQUID or POWDER insecticides (like Lead Arsenate, Bordeaux, Lime). Ideal for DDT in barn and poultry house. A simple squeezing pressure of one hand sends powerful, soaking, fan shaped spray—up, down, sideways, or under leaves. Made of non-rusting zinc alloy, machined brass and stainless steel. Chemical resistant hose. Built to last for years. Each: \$2.95, ppd.

Neegards



NEEGARDS—The Modern Knee Protector

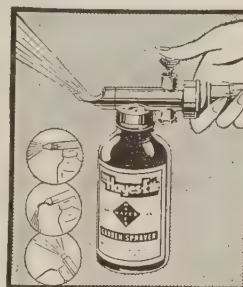
A necessity when you work kneeling on ground or floor. Made of finest grade, thick, cushioning sponge rubber, reinforced with extra strong, flexible rubber where they contact ground or floor. Fully adjustable to fit any size knees, form fitting, knee-cupped to stay in place either over or under clothing. Equipped with adjustable non-slip straps. Designed for greatest comfort and durability. Price per pair, \$1.85, postpaid.



HAYES-ETTE SPRAYER

Attaches to Your Garden Hose

AT LAST! A compact little bantam weight that does the work of much larger sprayers. Weighs about a pound, filled. Simply attach to garden hose, press the NO-LEAK Thumb Button—that's all! Easy to operate—spray for hours without tiring. Sends out a medium fine spray—up, down, sideways. Sprays all modern liquid spray materials free from soaps. Operates on 20 to 150 pound water pressure. Capacity is 1 1/2 gallons of mixed spray material.



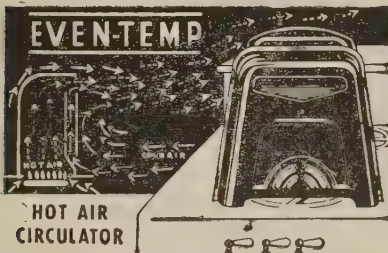
AN EFFICIENT, INEXPENSIVE SPRAYER FOR APPLYING: WEEDONE to your lawn (kills dandelion, plantain). Page 73. ZOTOX to your lawn (kills crab grass). Page 73. BOOST-EM to lawn and garden. Page 76. BLACK LEAF 40 to shrubs (kills aphids, etc.). Page 74. ANY liquid spray material (free from soap) that must be accurately mixed with any specified amount of water. Only \$2.95, postpaid.

INSECT BOMB with DDT!



No Sprayer Needed

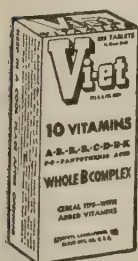
The famous DDT dispenser used by U. S. Army. Safely dispenses DDT with freon gas, which spreads to all corners of room. Only 4 seconds spray required for average room. Kills flies, mosquitoes, moths, roaches, etc. Release fog in middle of room—it penetrates cracks and crevices. A room 11x15x9 feet can be sprayed approximately 150 times before dispenser is empty. Each: \$2.95, postpaid.



Post-paid for ONLY \$2.95 Each

A surprising heat broadcaster, warms kitchen, bathroom, basement, garage quickly, at low cost. Just set EVENTEMP over open flame of gas, range or oil stove—every corner of kitchen gets instant, even heat. No sweating walls and ceiling—no cold floors. Twice the heat with one-fourth the gas! Works on any open flame burner—no connections or piping needed. Price: \$2.95 each, postpaid.

FARM PRODUCT HEALTH FOODS



GRASS Newest Food! for Man!

The amazing new product recent magazines describe. Scientists found certain grass leaves properly processed, contained ALL known VITAMINS essential to human diet. NOW in one tablet: Vitamins A, B1, B6, C, D, E, G, K! This invaluable food helps prevent colds, constipation—builds health. A necessity for some—protection for all. FREE, detailed folder. Supplies vitamins, without calories, to those on reducing diets. 225 Vi-et tablets (month's supply), ppd., \$1.50.

minis, without calories, to those on reducing diets. 225 Vi-et tablets (month's supply), ppd., \$1.50.



MYSTIC MAT

Provides greenhouse conditions—keeping pot walls moist while not over-watering the plant. Results are amazing—greater growth, stronger, healthier plants and many more blossoms.

In greenhouses, clay pot walls are always damp. Without the Mystic Mat the dry air of heated houses dries out the pot walls, damaging root ends and setting back the plant.

Pkg. of 2 Mystic Mats, 5 1/2-in. size (for 5 or 6-in. pots) 15c ppd.

Pkg. of 3 Mystic Mats, 3 1/2-in. size (for 2 to 4-in. pots, or for one 7-in. pot) 15c ppd.

NEW HEALTH-GIVING FOODS

Pure Soy Bean Lecithin

An organic food of phosphorous compounds necessary for life and credited with increasing red corpuscles and haemoglobin of the blood. Considered a tonic in combating anemia and chlorosis. Ordinary diets contain too little of this necessary element. An insufficient supply results in lassitude—no pep—nervousness—insomnia and a half-alive feeling. Lecithin is helpful in stimulating mental effort, will power and in the growth of children, as well as quicker recovery of the sick. Box of 70 four-grain Lecithin capsules—use one or two per day—price \$1.00, ppd.

GARLIC & PARSLEY in Tasteless Capsules

In the opinion of many prominent physicians, garlic should be included in every day diet. Its exceptional health values have been recognized for years, and it has proved valuable in treatment of acidity, high blood pressure, pneumonia, colds, coughs, and kidney and intestinal troubles. Now you can get the benefits of garlic in this pleasant, tasteless way. Each capsule contains concentrated clean fresh garlic (moisture removed)—suspended in cold pressed Wheat Germ Oil. Suggest usage: 1 capsule before each meal. 70 capsules (3 to 4 weeks' supply), only \$1.00, postpaid.



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Packages weighing 70 pounds can be sent to all zones. Ten pounds or more beyond the 5th zone usually go cheaper by express.

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3rd	150-300 miles	10c	2c
4th	300-600 miles	11c	4c
5th	600-1,000 miles	12c	6c
6th	1,000-1,400 miles	13c	7c
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POTATOES, ONIONS, BULBS, PLANTS AND NURSERY STOCK are shipped when weather conditions permit, and customers are then notified of shipments. Should a shipment reach you in bad condition, notify us at once. Have agent make notations on your receipt. If yours is a prepaid station, full transportation charges must be sent with the order.

C. O. D. Service

For your convenience we offer to ship garden seeds, flower seeds, or light weight shipments C. O. D. Simply pay the postman or express company the amount due, on delivery, plus a small charge for returning the remittance. For prompt service send full remittance with order.

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Free flower seed novelties in exchange.

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(No. 254)—A new "vest pocket cuke" from Minn. Experiment Station. Ideal for pickles or slicing. 4-inch fruits are born on compact vines, not inclined to "run" extensively, like other varieties. Just the thing for the small garden. Very early—a heavy cropper.

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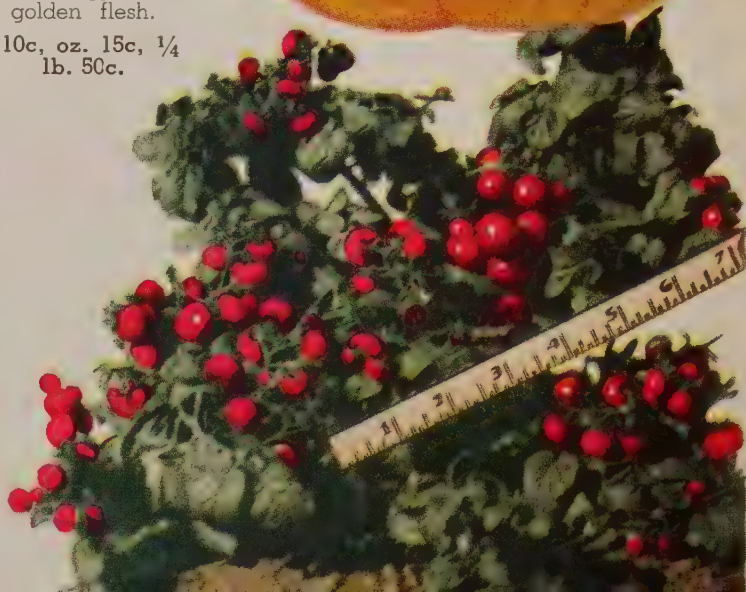
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(No. 640)—These novel, miniature, three-quarter inch tomatoes are easy to grow in house or garden. They make fascinating, colorful, potted house plants. Fruits are ideal for garnishing winter-time menus, or in salads and preserves. Dwarf plants, 12 to 15 inches high, loaded with brilliant scarlet miniature tomatoes. Pkt. 25c, 3 Pkts. 65c.

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(No. 566)—Grow delicious pie pumpkins in the smallest back-yard garden! Compact, bushy plants, 3 to 4 ft. across, produce amazing numbers of brilliant orange fruits, close to the crown. Fruits are "Sugar Pie" type with deep golden flesh.

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SUMMER LONG BROCCOLI

(No. 80)—This delicious, easy-to-grow vegetable should be in every garden. 25 plants supplied a Minnesota family almost daily from July 1 through late November! It's delicate flavor is relished even by those who dislike Cauliflower. After main head is cut, many small heads develop, even after severe frost.

Pkt. 10c, 1/2 oz. 25c, oz. 40c, prepaid. (page 6)

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(No. 250) The last word in Pop Corn. Developed by the Minnesota Experiment Station, it far surpasses the old hullless varieties. Records show a 16% greater yield per acre, and a 29% greater popping volume. Hybrid Hullless is the finest white hullless Pop Corn obtainable from a standpoint of quality, flavor, and tenderness. Certified seed.

Pkt. 10c, 1/4 lb. 20c, 1/2 lb. 30c, 1b. 55c, prepaid (page 11)

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(No. 20)—An absolutely stringless, round-podded bush bean, ideal for home use, canning or freezing. The deep green pods are solid, meaty, brittle and deliciously tender. A dinner table treat especially when picked young! Plants are strong upright growers, enormously productive.

Big Pkt. 10c, 1/2 lb. 30c, Pound 45c ppd.

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Pkt. 10c, oz. 20c, 1/4 lb. 50c

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(No. 373)—Eat crisp, sweet watermelons from your garden—30 days before others are ripe! These novel 10 lb. fruits are "bowling ball" size,—tuck away easily in the refrigerator and can be readily consumed at a single meal. Surprisingly sweet, extremely early. Vines are not extensive. (page 15)

Pkt. 10c, oz. 25c, 1/4 lb. 65c.

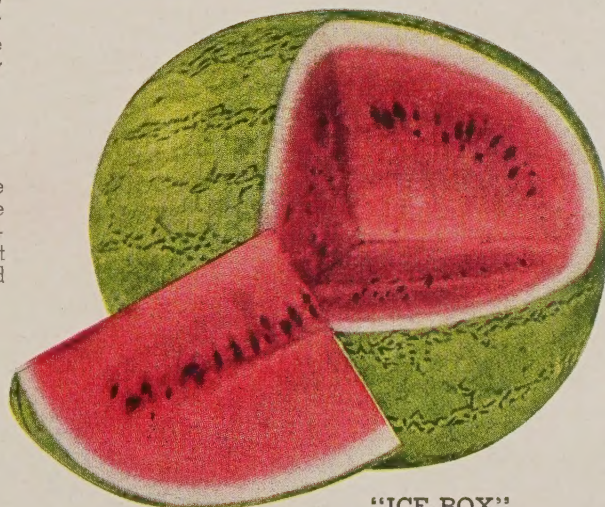
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(No. 600.) A novel squash from Minnesota, of striking appearance and superior quality. Even folks who do not care for squash have acclaimed the flavor of Rainbow! Delicious baked or boiled—nothing finer for canning or pies. Flesh very dry, fine grained, not stringy. Attractive 15 inch fruits mature in 75 days and are good winter keepers.

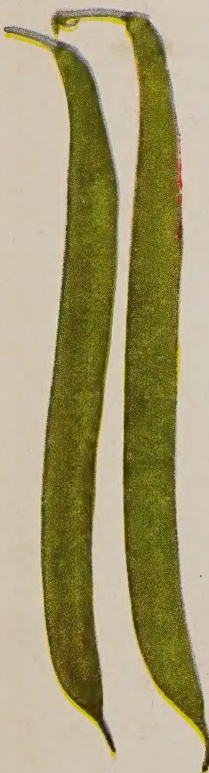
Pkt. 15c, oz. 35c, 1/4 lb. \$1.00 ppd.



FIRECRACKER RADISH



"ICE-BOX" WATERMELON



Rainbow Squash



Streamliner

NEW JUMBO EVERBEARING STRAWBERRY

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Page 28



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